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**DOCKET NO.: CING-0255/236.US.D3(2)** 

**PATENT** 



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRADE In Re Application of:

Michael D. Raffel, et al

**Confirmation No: 9861** 

Filing Date: April 25, 2006

Application No: 10/647,105

For: CORDLESS CELLULAR SYSTEM

VIA HAND DELIVERY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### STATEMENT UNDER 37 CFR § 3.73(b)

| Cingular Wireless, II, LLC, a limited liability company                                  |
|--|
| states that it is:   |
| the assignee of the entire right, title, and interest; or                                |
| an assignee of an undivided part interest  |
| in the patent application/patent identified above by virtue of either:                   |
| A. An assignment from the inventor(s) of the patent application/patent identified above. |
| ☐ 1. The assignment was recorded in the Patent and Trademark Office at Reel , Frame(s) . |
| 2. The assignment has not yet been recorded. A copy of the assignment is attached.       |
|  |

OR

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PTO/SB/80 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

| I hereby app  | 3(b).  |  |                                       |   |   |   |                                     |
|---|--|--|---------------------------------------|---|---|---|-------------------------------------|
|   |  | ith the Customer Number:   |                                       | 54499                                   |   |   |                                     |
| OR  |  | w (if more than ten patent   | aractitioners are to t                | ne named then a cu                      | stomer num                              | i<br>nber must be us                            | ed):                                |
| Practition  | oner(s) named belo   | w (if more than tell patent  | practitioners are to                  |   |   | • • •   | Registra                            |
| E   | Na   | me ·   | Registration<br>Number                |   | Name                                    |   | Numbe                               |
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| 6 100   | <u></u>  | •  |                                       |   |   |   |                                     |
| <u>  5</u> /  |  |  | <del> </del>                          |   |   | :   | 1.                                  |
| RADEM   |  |  |                                       |   |   | *   | -                                   |
|   |  | resent the undersigned be  |                                       | - Dalari and Trader                     | nark Office                             | (USPTO) in cor                                  | nection wi                          |
| any and all pa  | atent applications a<br>his form in accorda  | nce with 37 CFR 3.73(b).   | signed according to t                 |   |   |   |                                     |
| Please chang  | ge the corresponde   | nce address for the applic   | ation identified in the               | attached statement                      | under 37 C                              | ), N 3,13(U) 10.                                |                                     |
| l   |  |  |                                       |   |   | •   |                                     |
| Th  | e address associat   | ed with Customer Number  | :                                     |   |   |   |                                     |
| OR  |  |  |                                       |   |   |   |                                     |
| Firm  | or<br>dual Name  |  |                                       |   |   |   |                                     |
| Address   | uuai Nairie  |  |                                       |   |   |   | •                                   |
|   | <u></u>  |  | State                                 |   |   | Zip   |                                     |
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| Country   |  |  |                                       | Email                                   |   |   |                                     |
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|   |  |  |                                       |   |   |   |                                     |
| Telephone<br>Assignee N   | ame and Address:   |  |                                       |   |   | ·   |                                     |
| Telephone Assignee No   | ame and Address:<br>lar Wireless,  | II, LLC  |                                       |   |   | <u>.</u>  |                                     |
| Assignee No Cingu 5565  | ame and Address:<br>lar Wireless,<br>Glenridge Co  | onnector   |                                       |   |   | . *   |                                     |
| Assignee No Cingu 5565  | ame and Address:<br>lar Wireless,<br>Glenridge Co<br>a, Georgia  | onnector<br>30342  |                                       |   |   |   |                                     |
| Assignee No Cingu 5565  | ame and Address:<br>lar Wireless,<br>Glenridge Co<br>a, Georgia  | onnector<br>30342<br>  | under 37 CFR 3.7                      | (3(b) (Form PTO)                        | SB/96 or e                              | equivalent) is                                  | required                            |
| Assignee No Cingu 5565 Atlant   | ame and Address:<br>lar Wireless,<br>Glenridge Co<br>a, Georgia  | onnector<br>30342<br>ther with a statement   | under 37 CFR 3.7<br>sed. The statem   | (3(b) (Form PTO/sent under 37 CFF       | SB/96 or e                              | equivalent) is                                  | required                            |
| Assignee No Cingu 5565 Atlant A copy of filed in ea                   | ame and Address: lar Wireless, Glenridge Co ca, Georgia this form, toge  | onnector<br>30342<br>ther with a statement<br>in which this form is u  | nnointed practiti                     | oner is authorize                       | SB/96 or e<br>3.73(b) n<br>d to act o   | equivalent) is<br>nay be comp<br>n behalf of th | required<br>leted by (<br>ne assign |
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This collection of Information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO) to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
  - i. From: Michael D. Bamburak To: McCaw Cellular Communications, Inc. The document was recorded in the Patent and Trademark Office on September 7, 1995 at Reel 7692 and Frame(s) 0722
  - ii. From: **David R. Glass** To: **McCaw Cellular Communications Inc.**The document was recorded in the Patent and Trademark Office on September 8, 1995 at Reel 7692 and Frame 0740;
  - iii. From: Michael A. Raffel, Christopher G. Lawrence, Ileana A. Leuca, Joseph P. Marx, Roderick Nelson To: McCaw Cellular Communications, Inc. The document was recorded in the Patent and Trademark Office on September 8, 1995 at Reel 7692 and Frame 0758.
  - iv. From: Masud Kibria To: McCaw Cellular Communications, Inc. The document was recorded in the Patent and Trademark Office on September 8, 1995 at Reel 7692 and Frame 0770.
  - v. From: Roland E. Williams To: TCSI Corporation. The document was recorded in the Patent and Trademark Office on September, 1995 at Reel 7883 and Frame 0484.
  - vi. From: **Keith Jarett, Tony S. Lee, Paul B. O'Neill** To: **TCSI Corporation**The assignment was recorded in the Patent and Trademark Office on September 8, 1995 at Reel 7883 and Frame 0527.
  - vii. From: TCSI Corporation To: McCaw Cellular Communications, Inc. The assignment was recorded in the Patent and Trademark Office on September 7, 1995 at Reel 7692 and Frame 0749.
  - viii. From: McCaw Cellular Communications, Inc. To: AT&T Wireless Services, Inc. The Change of Name assignment document was recorded in the Patent and Trademark Office on March 15, 1996 at Reel 7835 and Frame 0273.
  - ix. From: New Cingular Wireless Services, Inc. (f/k/a AT&T Wireless Services, Inc.) To: Cingular Wireless, II, LLC. The document was sent to the United States Patent and Trademark Office for recordation on September 27, 2005. A copy thereof is attached
  - Additional documents in the chain of title are listed on a supplemental sheet.
  - Copies of assignments or other documents in the chain of title are attached.

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#### DOCKET NO: CING-0255/236.US.D3(2) -2-

**PATENT** 

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: April 24, 2006

Signature

Name: Christopher M. Arena

Reg. No.: 35,429

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 Telephone: (215) 568-3100

Facsimile: (215) 568-3439

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| 10-07  | 7 - 2005 U.S. DEPARTMENT OF COMMERCE                               |
|--|--|
| E PTO-1505 (Rev (19/04)                                    |  |
|  | United States Patent and I ranemark Unice                          |
| .10309   | 96422  |
| To the Director of the U.S. Patent and Trademark Office: I | Please record the attached documents or the new address(es) below. |
| 1. Name of conveying party(les)/Execution Date(            |  |
| AT&T Wireless Service, Inc.                                | Name: Cingular Wireless II, LLC.                                   |
|  | Internal Address: Suite 1700                                       |
|  |  |
| Execution Date(s) 10/27/2005; 4/11/2005                    | Street Address: 5565 Glenninge Conn.                               |
| Additional name(s) of conveying party(les) attached? Yes   | No   |
| 3. Nature of conveyance:                                   |  |
| Assignment Merger  | City: Atlanta  |
| Security Agreement ' Change of Nan                         | ne State: Georgia  |
| Government Interest Assignment                             |  |
| Executive Order 9424, Confirmatory License                 | Country: USA Zip: 30342  |
| Other  | Additional name(s) & address(es) attached? ☐ Yes ✓ No              |
|  | This document is being filed together with a new application.      |
| A. Patent Application No.(s)                               | B. Patent No.(s)   |
| See Attached Sheets  | See Attached Sheets  PR/FIHA  Pers ettached? Vyes No               |
|  | /FI4   |
| Additional numb  | pers attached? ✓ Yes No  |
| 5. Name and address to whom correspondence                 |  |
| concerning document should be mailed:                      | involved: 513  |
| Name: Cinqular Wireless, LLC                               | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 20,520                     |
| Internal Address: Attn; Linda Giles                        | Authorized to be charged by credit card                            |
| #1725A   | Authorized to be charged to deposit account                        |
| Street Address: 5565 Glenridge Connector                   | Enclosed   |
|  | None required (government interest not affecting title)            |
| City Allerda   | 8. Payment Information   |
| City: Atlanta  | a. Credit Card Last 4 Numbers                                      |
| State: Geomla Zip: 30342                                   | Expiration Date  |
| Phone Number: <u>404-236-6720</u>                          | b. Deposit Account Number 502450                                   |
| Fax Number:  | Authorized User Name Counter C. Henry                              |
| Email Address: linda.glles@cingular.com                    |  |
| 9. Signature:  | 9/27/2005  |
| Signatur   |  |
| Coulter C. Henry, Reg. No.: 51,121  Name of Person Signing | shoot ettechments and documents!                                   |
| Name of Ferson Signing                                     |  |

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### Patents

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| 5197092 | 5889814 | 6085114          | 6334188          |
| 5541977 | 5896425 | 6092110          | 6343120          |
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| 5659578 | 5907801 | 6134261          | 6377783          |
| 5675590 | 5909641 | 6141545          | 6377787          |
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| 5722084 | 5930362 | 6157633          | 6393014          |
| 5724660 | 5931965 | 6158008          | 639 <b>3283</b>  |
| 5732354 | 5933421 | 6160839          | 6400940          |
| 5732383 | 5933778 | 6167261          | 6404388          |
| 5737707 | 5940740 | 6167274          | 640 <b>50</b> 32 |
| 5754952 | 5946615 | 6169895          | 64 <b>050</b> 41 |
| 5784417 | 5950125 | 6175555          | 6408016          |
| 5790551 | 5950134 | 6185258          | 6411 <b>8</b> 07 |
| 5802470 | 5953652 | 6188736          | 641 <b>830</b> 7 |
| 5809083 | 5956636 | 6188897          | 6418318          |
| 5819173 | 5960339 | 6188899          | 642 <b>7071</b>  |
| 5832367 | 5960340 | 6195532          | 643 <b>0396</b>  |
| 5838728 | 5966642 | 6201797          | 6442222          |
| 5845198 | 5974311 | 6219542          | 6445716          |
| 5845207 | 5991410 | 6223042          | 6445912          |
| 5854984 | 5995830 | 6229885          | 6456843          |
| 5864543 | 5995834 | 6230009          | 645 <b>974</b> 0 |
| 5865503 | 6002664 | 6239719          | 645 <b>98</b> 97 |
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| 5872814 | 6006087 | 6256735          | 647 <b>01</b> 82 |
| 5875187 | 6014559 | 6282420          | 647 <b>362</b> 3 |
| 5875394 | 6035193 | 6282421          | 647 <b>737</b> 6 |
| 5875395 | 6039624 | 6 <b>29</b> 8235 | 648 <b>0522</b>  |
| 5875398 | 6047200 | 6311064          | 648 <b>07</b> 20 |
| 5878328 | 6052598 | 6314303          | 6490445          |
| 5884300 | 6064875 | 6317684          | 6491528          |
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| 6553237   | 6697983 | 64 <b>04</b> 753 |
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| 6560455   | 6704565 | 5394467          |
| 6567671   | 6707894 | 5410597          |
| 6570983   | 6725033 | 5455964          |
| 6571094   | 6741635 | 5463678          |
| 6574292   | 6744383 | 5 <b>627891</b>  |
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| 6603966   | 6775544 | 6282519          |
| 6603984   | 6775549 | 6332167          |
| 6611692   | 6778527 | 6658488          |
| 6621851   | 6782039 | 6708226          |
| 6628194   | 6782259 |                  |
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# Patent Applications

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# Patent Applications

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# Patent Applications

10/941247

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10/940576

10/939103

29/213592

10/367981

SELECT STORY CONTRACTOR

**Execution Copy** 

#### PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is executed by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") #/k/a AT&T Wireless Services, Inc., on the one hand, and Cingular Wireless II, Inc., a Delaware corporation ("Assignee"), on the other hand.

WHEREAS, Assignor is the owner of certain patentable inventions, patent applications and patents (as disclosed and set forth in Schedule A; collectively, the "Patents"), which Assignor desires to assign to Assignee; and

WHEREAS, Assignee desires to accept such assignment of the Patents.

NOW, THEREFORE, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. Assignment of Patents. Effective as of the date hereof, Assignor assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all of Assignor's right, title and interest in and to the Patents, all agreements and contracts of Assignor related to such Patents (the "Related Agreements") and the improvements and inventions disclosed in said Patents throughout the world, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions and improvements in Assignee's own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries. Assignor authorizes and requests the Commissioner of Patents and Trademarks and any foreign registrar or governmental authority to issue all patents on said applications or applications resulting therefrom to said Assignee, as assignee of Assignor's entire interest. Assignor agrees that it will communicate to said Assignee or its representatives any facts known to Assignor respecting said improvements and inventions, and, at Assignee's expense, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said Patents in all countries, and asserts that it will not execute any agreements inconsistent therewith. Assignee acknowledges that Assignor's assignment of any jointly owned Patent identified on Schedule A shall be subject to any rights such joint owner may have in such Patent.
- 2. <u>Assumption</u>. Effective as of the date hereof, Assignee hereby assumes the due and full payment and performance of all of the liabilities and obligations of Assignor under the Related Agreements.
- 3. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the United States of America and of the State of Delaware.

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- 4. Successors and Assigns. This Assignment shall inure to the benefit of and be binding on the successors and assigns of both parties.
- 5. Patents Subject to Consent. To the extent that any of the Assignor's right, title or interest in and to the Patents or any other rights, contracts, agreements or assets of the Assignor related thereto and/or liabilities or obligations of Assignor purported to be assigned hereunder may not be assigned, transferred or conveyed to, or assumed by, Assignee without the consent, release, authorization or waiver of any third party and such consent, release, authorization or waiver has not been obtained prior to the date hereof (such Patents and other rights, contracts, agreements and assets, the "Non-Transferable Patents" and such liabilities and obligations, "Non-Transferable Liabilities"), this Assignment shall not constitute an assignment, transfer, conveyance or assumption or an attempted assignment, transfer, conveyance or assumption thereof. In this circumstance, this Assignment shall to the extent possible under the Non-Transferable Patent and applicable law constitute an equitable assignment by Assignor to Assignee of all of Assignor's right, title and interest in and to, the Non-Transferable Patents and Assignee shall be deemed to be Assignor's agent for the purpose of paying, performing or discharging the Non-Transferable Liabilities on behalf of Assignor. Assignor shall take all actions reasonably requested by Assignee to provide Assignee with the benefits of the Non-Transferable Patents, including with respect to the enforcement of rights with respect thereto. Assignee shall, with respect to the Non-Transferable Liabilities, pay, perform or discharge in accordance with their terms all liabilities and obligations of Assignor under the Non-Transferable Liabilities. If Assignor is unable to effect an equitable assignment of any Non-Transferable Patent, Assignor shall transfer to Assignee an amount of cash equal to the fair market value (determined as of the date of this Assignment) of such Non-Transferable Patent.

[signatures on following pages]

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Executed this  $21^{1/2}$  day of October, 2004.

Assignor: NEW CINGULAR WIRELESS SERVICES, INC. f/k/a AT&T Wireless Services, Inc.

By:

Title: Vice President - Corporate Development

APPROVED:

GEORALA STATE OF COUNTY OF

On this 31 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stephen A. Mc Gaw known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

Sterry of Harret

SHERRY L. GARRETT - NOTARY PUBLIC

County of DeKalb

State of Géorgia

My Commission Expires Oct. 16, 2005

**Execution Copy** 

Acknowledged this 27th day of October, 2004.

Assignee: CINGULAR WIRELESS II, INC.

Title: Vice President-Corporate Development

KEFROYED

STATE OF COUNTY OF

On this 27 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stephen Mc Gaw known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

SHERRY L GARRETT - NOTARY PUBLIC

Sherry & Harrett

County of DeKalb

State of Georgia

My Commission Expires Oct. 15, 2:305

المعتقدة والمالية عن المالية المتعقدة

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# Schedule A

# **Patents**

• All inventions and trade secrets and related rights of Assignor not otherwise listed below

| Docket       | Application | Patent              |               | Country                       | Application<br>Date | Grant<br>Date | Title  |
|--------------|-------------|---------------------|---------------|-------------------------------|---------------------|---------------|--|
| Number       | Number      | Number              | OWIG          |                               |                     |               | Antenna for Enhanced                             |
|              |             |                     | AT&T Wireless | United States                 | 15-Jun-95           | 10-Jun-97     | Radio Coverage                                   |
| 145.US       | 08/490363   | 00000               |               |                               |                     | 00. Sep. 97   | Antenna  |
| 148115       | 29/041775   | D383463             | AT&T Wireless | United States                 | 07-Jun-93           | 20000         |  |
|              |             |                     | AT&T Wireless | European Patent<br>Convention | 06-Oct-94           |               | Antenna Mounting System                          |
| 149.EPC      | 95902387    |                     |               |                               |                     | 24. hin.97    | Antenna Mounting System                          |
| 149.US       | 1965220     | 5641141             | AT&T Wireless | United States                 | 00-101-80           |               | Arrangement of Displays                          |
|              |             |                     |               | 30tct3                        | 23-Sep-94           | 13-Jan-98     | for a Wireless<br>Communications Terminals       |
| 150.US       | 29/024956   | D389140             | AT&T Wireless | United States                 | in donor            |               | Wireless Communications                          |
|              | 20100106    | 0363281             | AT&T Wireless | United States                 | 23-Jun-94           | 17-Oct-95     | Personal Communicator                            |
| 153.US       | 29/024933   | 07000               |               | Copera Creation               | 28-Nov.97           | 01-301-03     | With Flip Element Display                        |
| 154 US C2    | 08/979110   | 6587700             | AT&T Wireless | United States                 | S-AONI-OV           |               | Personal Communicator                            |
|              |             |                     | AT&T Wireless | United States                 | 05-Jun-03           |               | With Flip Element Display High Rate Reed-Solomon |
| 154.US.C2(1) | 10/455125   | <br> <br> <br> <br> |               | <br>                          |                     |               | Concatenated Trellis                             |
|              |             |                     |               |                               |                     |               | Coded 16 Star DAM                                |
|              | ÷           |                     |               |                               | ·<br>               |               | System for Transmission of                       |
| . *          | •           |                     |               | :                             | 22.Mov.05           | 17-Feb-04     | Radio  |
| 155.BR       | P19509749-0 | P19509749-0         | AT&T Wireless | Brazil                        | 26-101-27           |               | High Rate Reed-Solomon                           |
|              |             |                     |               |                               |                     |               | Concatenated Trems Coded 16 Star QAM             |
|              |             |                     |               |                               |                     |               | System for Transmission of                       |
|              |             |                     |               |                               | ;                   |               | Data Over Cellular Mobile                        |
| 155 CA       | 2203903     |                     | AT&T Wireless | Canada                        | 22-Nov-95           |               |  |
|              |             |                     |               |                               |                     |               |  |

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| Application Number Number Number Number Number Number Owner     Owner Owner       9703830     195559     AT&T Wireless Mexapples       08/344156     5659578     AT&T Wireless Unit | mber Owner AT&T Wireless AT&T Wireless           |  | Dig W   | Country Name Mexico                                     | Application Date 22-Nov-95 23-Nov-94                          | Grant Date 16-Mar-00                             | Title High Rate Reed-Solomon Concatenated Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile Radio Concatenated Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile Radio Radio Radio   |         |
|---|--|--|---|---|---|--|--|---------|
| 155.US.C1<br>156.BR<br>156.MX<br>156.US   | -626907<br>P19509908-5<br>9703831<br>08/344111   | 5838728<br>mailed<br>196647<br>5675590   | AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless | United States Brazil Mexico United States               | 06-May-97<br>22-Nov-95<br>22-Nov-95<br>23-Nov-94              | 17-Nov-98<br>13-Apr-04<br>25-May-00<br>07-Oct-97 | Cyclic Trellis Coded  Cyclic Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile Radio Cyclic Trellis Coded Modulation Cyclic Trellis Coded | 0 9     |
| 156.US.C1<br>156.US.D1<br>156.US.D2<br>156.US.D2C1(1)   | 08/590507<br>08/570289<br>08/581477<br>10/039038 | 5931965<br>5784417<br>5907565<br>6578173 | AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless | United States United States United States United States | 09-Jul-97<br>11-Dec-95<br>17-Nov-95<br>04-Jan-02<br>07-Mav-03 | 03-Aug-99<br>21-Jul-98<br>25-May-99<br>10-Jun-03 | Cyclic Trellis Coded Modulation Cyclic Trellis Coded Modulation Cyclic Trellis Coded Modulation Cyclic Trellis-Coded Modulation Cyclic Trellis-Coded Modulation Cyclic Trellis-Coded   |         |
| 157.BR  | P19509910-7                                      | PI9509910-7                              | AT&T Wireless AT&T Wireless                             | Brazil<br>Canada  | 22-Nov-95<br>22-Nov-95  | 17-Jul-03  | System and Method for Wireless Transmission of Digital Data Using Differentially Encoded Pilot Words  Differentially Encoded Pilot Word System and Method  | d ii do |

|         |             | \$2000     |               | Country       | Application | Grant     | - ;<br>i  |
|---------|-------------|------------|---------------|---------------|-------------|-----------|---|
| Docket  | Application | Ministra   | Owner         | Name          | Date        | Date      | Title   |
| Number  | Number      | I AUTON    |               |               |             |           | for Wireless Transmissions<br>of Digital Data:                                |
|         |             |            |               |               |             |           | System and Method for   |
|         |             |            |               |               |             |           | Wireless Transmission of Digital Data Using                                   |
|         |             |            |               |               |             |           | Differentially Encoded Pilot  |
|         | 0703030     | 104560     | AT&T Wireless | Mexico        | 22-Nov-95   | 16-Mar-00 | Words   |
| VM. 7C1 | 31000018    |            |               |               |             |           | Underentially Encoded Prior Word System and Method for Wireless Transmissions |
|         |             |            | ATRI Missiose | United States | 23-Nov-94   | 15-Sep-98 | of Digital Data:  |
| 157.US  | 08/344238   | 5809083    | Algi Wildias  |               |             |           | Location Registration System for a Personal                                   |
|         |             |            |               |               |             |           | Communicator Such as a  |
|         |             | 0.000000   | ATRT Wireless | Germany       | 31-Oct-91   | 14-Jan-98 | Cellular Telephone  |
| 177.DE  | 566582      | 69128727.9 | AIGI WIICIGS  |               |             |           | Location Registration   |
|         |             |            | ,             |               |             |           | Communicator Such as a  |
|         |             |            |               | Donmark       | 31-Oct-91   | 14-Jan-98 | Cellular Telephone  |
| 177.DK  | 92900021.4  | 566582     | AT&I WIREIESS | Daimilain     |             |           | Location Registration   |
|         |             |            |               |               |             |           | System for a Personal   |
| •       |             |            |               |               |             | ,         | Communicator Such as a  |
|         |             |            | ATRT Wireless | France        | 31-Oct-91   | 14-Jan-98 | Cellular Telephone  |
| 177.FR  | 92900021.4  | 790990     | 2000          |               |             |           | Location Registration   |
|         |             |            |               |               |             |           | System total Such as a  |
|         |             |            | -             | -             | 20.50       | 14-lan-98 | Cellular Telephone  |
| 177 GB  | 92900021.4  | 566582     | AT&T Wireless | Great Britain | 31-00-81    |           | Location Registration   |
|         |             |            |               |               |             |           | = }   |
|         |             |            |               | . :           |             |           | Communicator Such as a  |
|         |             |            | ATRT Wirelace | Sweden        | 31-Oct-91   | 14-Jan-98 | Cellular Telephone  |
| 177.SE  | 566582      | 566582     | Algi Wildigs  |               |             |           | Location Registration   |
|         |             | ·          |               |               |             |           | Communicator Such as a  |
|         | · ·         |            |               |               | 31,001,91   | 14-Jan-98 | Cellular Telephone  |
| 177.SP  | 566582      | 2112309    | AT&T Wireless | Spalli        |             |           | Location Registration   |
|         |             |            |               |               |             | :         | System for a Personal   |
|         |             |            |               |               | 0,70        | 22-Mar.93 | Cellular Telephone  |
| 177.US  | 07/606523   | 5197092    | AT&T Wireless | United States | 31-04-90    | 20 IBM C7 | Powered Down Selection  |
|         | -           |            |               |               |             |           | of a Preferable Wireless  |
|         |             |            | AT&T Wireless | Canada        | 21-Oct-96   | 17-Apr-01 | Provider in a Multi-Service   |
| 206.CA  | 2188334     | 2188334    | AIGH WHOICH   |               |             |           |   |
|         | •           |            |               |               |             |           | e e e e e e e e e e e e e e e e e e e   |

| Docket    | Application     | Patent  | Owner         | Country         | Application<br>Date | Grant<br>Date | Title   |
|-----------|-----------------|---------|---------------|-----------------|---------------------|---------------|---|
| 1000      |                 |         |               |                 |                     |               | Provider Environment                                |
|           |                 | ٠.      |               |                 |                     |               |   |
|           |                 |         |               |                 |                     |               | Powered Down Selection                              |
|           |                 | •       |               |                 |                     |               | Comminications Service                              |
|           |                 |         |               | European Patent |                     |               | Provider in a Multi-Service                         |
| 206.EPC   | 96120004.5      | 779751  | AT&T Wireless | Convention      | 12-Dec-96           | 10-Dec-03     | Provider Environment                                |
|           |                 |         |               |                 |                     |               | Powered Down Selection                              |
|           |                 |         |               |                 |                     |               | of a Preferable Wireless                            |
|           |                 |         |               |                 |                     |               | Communications Service                              |
| 90, 900   |                 | 770751  | AT&T Wireless | Great Britain   | 12-Dec-96           | 10-Dec-03     | Provider in a Multi-Service<br>Provider Environment |
| 200,00    | 30120004.3      | 10101   | 2000          |                 |                     |               | Powered Down Selection                              |
|           |                 |         |               |                 |                     |               | of a Preferable Wireless                            |
|           |                 | •       |               |                 |                     | 3             | Communications Service                              |
|           |                 |         |               |                 |                     | ;             | Provider in a Multi-Service                         |
| 206.MX    | 966233          | 202958  | AT&T Wireless | Mexico          | 09-Dec-96           | 06-Jul-01     | Provider Environment                                |
|           | -               |         |               |                 |                     |               | Powered Down Selection                              |
|           |                 |         |               |                 |                     |               | Comminications Service                              |
|           |                 |         |               |                 |                     |               | Provider in a Multi-Service                         |
| 206115    | . 2060257000    | 6298235 | AT&T Wireless | United States   | 12-Dec-95           | 02-Oct-01     | Provider Environment                                |
|           |                 |         |               |                 |                     | -             | Powered Down Selection                              |
|           |                 |         |               |                 |                     |               | of a Preferable Wireless                            |
|           |                 | -       |               |                 |                     |               | Communications Service                              |
|           |                 |         |               |                 |                     |               | Provider in a Multi-Service                         |
| 208.US.C1 | 1065658         |         | AT&T Wireless | United States   | 14-Jun-99           |               | Provider Environment                                |
|           |                 |         |               |                 |                     |               | Powered Down Selection                              |
| •         | -               |         |               | •               |                     |               | Comminications Service                              |
|           |                 |         |               |                 |                     |               | Provider in a Multi-Service                         |
| 00 01 000 | 75300           | 6211061 | AT&T Wireless | United States   | 28-Nov-00           | 30-Oct-01     | Provider Environment                                |
| 200.03.02 | 77907-          | 001100  | 2000          |                 |                     |               | Memory Exceed                                       |
|           | *               |         |               |                 |                     |               | Notification for Wireless                           |
|           |                 |         |               |                 |                     |               | Network Communication                               |
| 207.BR    | 9706556         |         | AT&T Wireless | Brazil          | 09-Jun-97           | 2.            | Device  |
|           |                 |         |               |                 |                     |               | Memory Exceed                                       |
|           |                 |         |               |                 |                     |               | Notification for Wireless                           |
| 207 MX    | 981350          | 00      | AT&T Wireless | Mexico          | 09-Jun-97           |               | Device  |
| VIA: 107  | 000100          |         |               | Patent          |                     |               | Memory Exceed                                       |
| 207 PCT   | PCT//1S97/10095 |         | AT&T Wireless | Cooperation     | 09-Jun-97           |               | Notification for Wireless                           |
|           |                 |         |               |                 |                     |               |   |

|           | _:          |          |               |                 |                     |               |   |                 |
|-----------|-------------|----------|---------------|-----------------|---------------------|---------------|---|-----------------|
| Docket    | Application | Patent   |               | Country         | Application<br>Date | Grant<br>Date | Title   |                 |
| Number    | Number      | Number   | Owner         | Treaty          |                     |               | Network Communication<br>Device   | 5               |
| ·         |             |          |               |                 | 200                 | 24.410-00     | Memory Exceed Notification for Wireless Network Communication Device  | s C             |
| 207.TW    | 86108772    | 114335   | AT&T Wireless | Taiwan          | 78-unr-87           | OO ROULE      | Memory Exceed   |                 |
|           | ~           |          | AT2T Mireless | United States   | 07-Mar-00           | 30-Sep-03     | Notification for Wireless Network Communication Device  | si on           |
| 207.US.C1 | 09/519993   | 6628930  |               |                 | 12 Dec- 97          | 66-day-80     | Landline-Supported Private<br>Base Station for Collecting<br>Data and Switchable Into a<br>Cellular Network | cting nto a     |
| WT.805    | 86118807    | 103007   | AT&T Wireless | laman           | 16.000-21           |               | Landline-Supported Private  | rivate          |
|           |             |          | ATRT Wireless | United States   | 17-Dec-96           | 02-Jan-01     | Base Station for Collecting<br>Data and Switchable Into a<br>Cellular Network                               | cting<br>Into a |
| 209.US    | 08/768371   | 6169895  | AIGI WIEESS   |                 |                     |               | Telephone System Having   | aving<br>Avate  |
|           |             |          |               | i co            | 24-Jun-97           |               | Landine-Supported Private<br>Base Station Switchable<br>Into Cellular Network                               | ble             |
| 210.BR    | 9710989-4   |          | AT&T Wireless | Diazii          |                     |               | Telephone System Having   | aving           |
|           |             | · .      |               |                 |                     | 18 Mar-03     | Landline-Supported Private Base Station Switchable Into Cellular Network                                    | aple            |
| 210.CA    | 2259273     | 2259273  | AT&T Wireless | Canada          | 24-Jun-97           |               | Telephone System Having   | laving          |
|           |             |          |               | European Patent | 24~lun-97           |               | Landline-Supported Private<br>Base Station Switchable<br>Into Cellular Network                              | Private         |
| 210.EPC   | 97930213    |          | AT&T Wireless | COILVEILION     |                     |               | Telephone System Having   | laving Dahale   |
|           |             |          |               |                 |                     |               | Base Station Switchable   | able            |
| 01 010    | 10-504243   |          | AT&T Wireless | Japan           | 24-Jun-97           |               | Telephone System Having   | taving          |
| 1007      |             |          |               |                 | *                   |               | Landline-Supported Private Base Station Switchable  | Private<br>able |
|           |             | <u> </u> | AT&T Wireless | Mexico          | 24-Jun-97           |               | Into Celiular Network   | Asvino          |
| 210.MX    | 990238      |          |               |                 |                     |               | I andline-Supported Private   | Private         |
|           |             |          |               |                 | 77                  | 16_ful_98     | Base Station Switchable into Cellular Network   | able<br>*       |
| 210.TW    | 86108826    | 93482    | AT&T Wireless | Talwan          | 24-Jun-97           | 25            |   |                 |
|           |             |          |               |                 |                     |               |   |                 |

| Docket<br>Number | Application<br>Number | Patent<br>Number | Owner         | Country<br>Name               | Application<br>Date | Grant<br>Date | Title   |
|------------------|-----------------------|------------------|---------------|-------------------------------|---------------------|---------------|---|
| 210118           | 08/671745             | 6035403          | AT&T Wireless | United States                 | 28-lun-96           | 00-JeW-20     | Telephone System Having<br>Landline-Supported Private<br>Base Station Switchable<br>Into Cellular Network |
| 211.CA           | 2195494               | 2195494          | AT&T Wireless | Canada                        | 20-Jan-97           | 24-Apr-01     | Roaming Authorization<br>System   |
| 211.EPC          | 97101730.6            |                  | AT&T Wireless | European Patent<br>Convention | 04-Feb-97           |               | Roaming Authorization<br>System   |
| 211.US           | 1951340               | 6411807          | AT&T Wireless | United States                 | 05-Feb-96           | 25-Jun-02     | Roaming Authorization<br>System   |
| 211.US.C1        | 10/051713             | 6560455          | AT&T Wireless | United States                 | 17-Jan-02           | 06-May-03     | Roaming Authorization<br>System   |
| 213.CA           | 2195487               | 2195487          | AT&T Wireless | Canada                        | 20-Jan-97           | 15-Oct-02     | Location-Dependent<br>Cellular Service Profile  |
| 213.US           | 08/603290             | 5950125          | AT&T Wireless | United States                 | 20-Feb-96           | 07-Sep-99     | Location-Dependent<br>Cellular Service Profile  |
| 218.BR.CP1       | -74447                |                  | AT&T Wireless | Brazil                        | 20-Feb-97           |               | Method and Apparatus for Determining the Location of a Mobile Telephone                                   |
| 218.CA.CP1       | 2195591               | 2195591          | AT&T Wireless | Canada                        | 21-Jan-97           | 04-Sep-01     | Method and Apparatus for Determining the Location of a Mobile Telephone                                   |
| 218.MX.CP1       | 971205                | 200820           | AT&T Wireless | Mexico                        | 17-Feb-97           | 09-Feb-01     | Method and Apparatus for Determining the Location of a Mobile Telephone                                   |
| 218.US           | 08/472082             | 5732354          | AT&T Wireless | United States                 | 07-Jun-95           | 24-Mar-98     | Method and Apparatus for Determining the Location of a Mobile Telephone                                   |
| 218.US.CP1       | 08/603793             | 5724660          | AT&T Wireless | United States                 | 20-Feb-96           | 03-Mar-98     | Method and Apparatus for Determining the Location of a Mobile Telephone                                   |
| 221.CA           | 2191143               | 2191143          | AT&T Wireless | Canada                        | 25-Nov-96           | 16-May-00     | Radio Telephone With Detachable Pager   |
| 221.US           | 08/576385             | 5854984          | AT&T Wireless | United States                 | 21-Dec-95           | 29-Dec-98     | Radio Telephone With<br>Detachable Pager  |
|                  |                       |                  |               |                               |                     |               | Method and Apparatus for Indicating to a Wireless Network the Operational Mode of a Wireless              |
| 223.CA           | 2219366               | ·                | AT&T Wireless | Canada                        | 04-Dec-96           |               | Communicator  |

|             | •           |          |               |                 |             |             |  |
|-------------|-------------|----------|---------------|-----------------|-------------|-------------|--|
|             |             | \$ actor |               | Country         | Application | Grant       | · · ·  |
| Docket      | Application | raiem    | Our           | Name            | Date        | Date        | Title  |
| Number      | Number      | Number   | OWIE          |                 |             |             | Method and Apparatus for   |
|             |             |          |               |                 |             |             | Indicating to a Wireless   |
|             |             |          |               |                 |             | •           | Network the Operational  |
|             |             |          |               | European Patent |             |             | Mode of a Wireless   |
|             |             |          |               | Companion       | 04-Dec-96   |             | Communicator   |
| 223.EPC     | 96944746.5  |          | AT&T Wireless | Convenient      |             |             | Method and Apparatus for   |
|             |             |          |               |                 |             |             | Indicating to a Wireless   |
|             |             |          |               |                 |             |             | Network the Operational  |
| •           | ·           |          |               |                 |             |             | Mode of a Wireless   |
|             |             |          |               |                 | 90 000      |             | Communicator   |
| 777         | 076070      |          | AT&T Wireless | Mexico          | 04-Dec-90   |             | Mothod and Annaratus for   |
| 223.MX      | 9/09/0      |          |               |                 |             |             | Method and Apparatus   |
|             |             |          |               | ٠               |             |             | indicating to a wifeless   |
|             |             |          | _             |                 |             |             | Network the Operational  |
|             |             |          | -             |                 |             |             | Mode of a Wireless   |
|             |             | -        |               | Thitted States  | 12-Dec-95   |             | Communicator   |
| 223.US      | 08/571050   |          | AT&I Wireless | OTHER STATES    |             |             | A Method for Selecting a   |
|             |             |          |               |                 |             |             | Wireless Communications  |
|             |             | •        |               |                 |             |             | Service Provider in a Multi-   |
|             |             |          |               |                 |             |             | Service Provider   |
|             |             | -        |               |                 | 90 10 10    | 24. Apr. 01 | Fovironment  |
|             | 0,000,00    | 2188330  | AT&T Wireless | Canada          | 21-Oct-96   | 24-MU-01    | A Mathod for Selection a   |
| 224.CA      | 7100330     | 410000   |               |                 |             |             | A Mireless Communications  |
|             |             |          |               |                 |             |             | Contro Drovider in a Multi-  |
|             |             |          |               |                 |             |             | Service ricolder in a more   |
|             |             | :        |               | European Patent |             |             | Control of the contro |
|             |             |          | AT&T Wireless | Convention      | 12-Dec-96   |             | Environment ;  |
| 224.EPC     | 96120011    |          | 2000          |                 |             |             | A Method for Selecuring a  |
|             |             |          |               |                 |             |             | Wireless Communications  |
|             |             |          |               |                 |             |             | Service Provider in a Mulu-  |
|             |             |          |               | ·               |             | •           | Service Provider   |
|             |             |          |               | Movico          | 09-Dec-96   | 13-Dec-00   | Environment  |
| 224.MX      | 966230      | 200025   | AIGI WIREESS  | Sivoli          |             |             | A Method for Selecting a   |
|             |             |          |               |                 | • •         |             | Wireless Communications  |
|             |             |          |               |                 |             |             | Service Provider III a man-  |
|             | •.          |          |               |                 |             | . ;         | Service Provider   |
|             | \           |          | ATRT Wirelace | United States   | 29-Oct-97   | 03-Nov-98   | Environment  |
| 224.US.C1   | 08/969710   | 5832367  | Alai Wileiess |                 |             |             | Method for Selecting a   |
|             |             |          | *             | •               |             |             | Wireless Communications  |
|             |             |          |               | •               |             |             | Service Provider in a muiu-  |
|             |             |          |               |                 | . (         |             | Service Provider   |
|             |             |          |               | I Inited States | 15-Sep-98   | 28-Aug-01   | Environment  |
| 224.US.C2   | 09/152927   | 6282420  | AT&I WIREIESS | Ollifed Oraces  |             |             | A Method for Selecting a   |
|             |             |          |               |                 |             |             | Wireless Communications  |
|             |             |          |               |                 |             |             | Service Provider in a mulu-  |
|             |             |          | ATET Winglass | United States   | 25-Oct-99   | 08-Aug-02   | Service Provider   |
| 224.US.C2C1 | 09/425240   | 6430386  | Aldi Wildios  |                 |             |             |  |
|             |             |          | •             |                 | •           |             |  |

| Docket         | Application / | Patent   | , and          | Country         | Application<br>Date | Grant<br>Date | Title  |
|----------------|---------------|----------|----------------|-----------------|---------------------|---------------|--|
| Mailines       | Muliper       | ionina.  |                |                 |                     |               | Environment  |
|                |               | 0        |                |                 |                     | ·             |  |
|                |               |          |                |                 |                     |               | A Method for Selecting a   |
|                |               |          |                |                 |                     |               | Service Provider in a Multi-   |
|                |               | -        |                |                 |                     |               | Service Provider   |
| 224.US.C2C1(1) | 10/154856     | 6771961  | AT&T Wireless  | United States   | 28-May-02           | 03-Aug-04     | Environment  |
|                |               |          |                |                 |                     |               | A Method for Selecting a   |
|                | ٠             |          |                |                 |                     |               | Wireless Communications Service Provider in a Multi-                     |
|                |               |          |                |                 |                     |               | Service Provider   |
| 224.US.C2C1(2) | -603471       |          | AT&T Wireless  | United States   | 25-May-04           |               | Environment  |
|                |               |          |                |                 |                     | •             | Method and Apparatus for Storing Activation Data in a                    |
| 225.US.C1      | 08/901827     | .5974311 | AT&T Wireless  | United States   | 28-Jul-97           | 26-Oct-99     | Cellular Telephone   |
|                |               |          | v              |                 |                     |               | Method and Apparatus for Storing Activation Data in a                    |
| 225.US.C2      | 09/219872     | 6650893  | AT&T Wireless  | United States   | 24-Dec-98           | 18-Nov-03     | Cellular Telephone   |
|                |               |          |                |                 |                     | •             | Method and Apparatus for Storing Activation Data in a                    |
| 225.US.C3      | 1902793       | 6748209  | AT&T Wireless  | United States   | 09-Aug-01           | 08-Jun-04     | Cellular Telephone   |
| 7 J J 1 300    | 101005217     |          | AT&T Witologe  | United States   | 22-Mar-04           |               | Method and Apparatus for Storing Activation Data in a Cellular Telephone |
| 423.03.04      | 147000/01     |          | 200            |                 |                     |               | Method and Apparatus for   |
| 226.CA         | 2182817       | 2182817  | AT&T Wireless  | Canada          | 07-Aug-96           | 09-Apr-02     | Spectrum Analysis  |
|                |               |          | ATOT Mississes | Inited States   | 12.Nov.99           | 24-Jun-03     | Method and Apparatus for Spectrum Analysis                               |
| 226.US.C1      | 09/439015     | 6284173  | AIGI WIIGIGSS  | 20000           |                     |               | Dynamically Selecting a  |
|                | 2224647       |          | AT&T Wireless  | Canada          | 16-Oct-97           |               | a Desired Service Feature  |
| 737.0A         | 1104177       |          |                | European Patent |                     |               | Dynamically<br>Reconfigurable Wireless                                   |
| 232 FPC        | 97954673.6    |          | AT&T Wireless  | Convention      | 16-Oct-97           |               | Communicator   |
|                | 40042         |          | AT&T Wireless  | negel           | 16-Oct-97           |               | Dynamically<br>Reconfigurable Wireless<br>Communicator                   |
| 16.363         | 2200          |          |                |                 |                     |               | Dynamically Reconfigurable Wireless                                      |
| 232.US         | 08/644638     | 5819173  | AT&T Wireless  | United States   | 30-Apr-96           | 06-Oct-98     | Communicator   |
|                |               |          |                |                 |                     | •             |  |

| et         Application         Patent         Owner         Country         Application         Grant         Date         Date           218424         Number         AT&T Wireless         Canada         29-Aug-86         24-Oct-00         1           2385331986         218424         AT&T Wireless         Japan         11-Sep-96         24-Oct-00           2396314         200024         AT&T Wireless         Japan         11-Sep-96         23-Dec-00           08550130         5865503         AT&T Wireless         Germany         05-Dec-86         24-Sep-03           1019655.8-2412         778716         AT&T Wireless         Germany         05-Dec-86         24-Sep-03           101         3016354.7         AT&T Wireless         Convention         05-Dec-86         24-Sep-03           101         2004.19565.8         778716         AT&T Wireless         Great Britain         05-Dec-86         24-Sep-03           101         2004.19565.8         778716         AT&T Wireless         Hong Kong         05-Dec-86         24-Sep-03           101         2004.19565.8         AT&T Wireless         Japan         16-Un-03         24-Sep-03           101         2004.19565.8         AT&T Wireless         Japan  | •          |                 |            |               |                 |                     |               |   |
|---|------------|-----------------|------------|---------------|-----------------|---------------------|---------------|---|
| Dec   | Docket     | Application     | Patent     |               | Country         | Application<br>Date | Grant<br>Date | Title   |
| 218424   218424   AT&T Wireless   Canada   29-Aug-96   24-Oct-00  | Number     | Number          | Number     | Owner         | Maile           |                     |               | Armrest Cradle for                              |
| 2184424         2184424         AT&T Wireless         Canada         237-ug-70           2398331986         2300224         AT&T Wireless         Japan         11-Sep-86         23-Dec-00           965014         200024         AT&T Wireless         United States         30-Cd-95         23-Dec-00           1         2190045         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           1         2190045         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           1         S6119565.8         69630100.8         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           1         3016354.7         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           1         4103133.8         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           1         AT&T Wireless         Japan         15-Jun-03         15-Jun-03           1         AT&T Wireless         Japan         15-Jun-03         15-Jun-03           2         AT&T Wireless         Japan         15-Jun-03         15-Jun-03           2         AT&T Wireless         Japan         05-Dec-96         07-Jan-04           3         A  |            | •               | •          |               |                 | 90 000              | 24-Oct-00     | Handset   |
| 2396331996   AT&T Wireless   Japan   11-Sep-96   1  | 733 CA     | 2184424         | 2184424    | AT&T Wireless | Canada          | ne-Rny-ez           |               | Armrest Cradle for                              |
| 239633/1966         AT&T Wireless         Japan         11-Sep-96         23-Dec-00           965014         200024         AT&T Wireless         Mexico         22-Oct-96         23-Dec-00           1290045         2190045         AT&T Wireless         Canada         12-Nov-96         27-Sep-03           1290045         AT&T Wireless         Germany         05-Dec-96         24-Sep-03           1290045         AT&T Wireless         Canvention         05-Dec-96         24-Sep-03           1290045         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           12001056         AT&T Wireless         Japan         05-Dec-96         07-Ja   | V2:50      |                 |            |               |                 |                     |               | Electronic Communications                       |
| 2396531996         AT&T Wireless         Mexico         22-Oct-96         23-Dec-00           0x65014         200024         AT&T Wireless         United States         30-Oct-95         02-Feb-99           0x650130         5865503         AT&T Wireless         Canada         12-Nov-96         02-Feb-99           0x750130         418565.8         69630100.8         AT&T Wireless         Germany         05-Dec-96         24-Sep-03           0x19565.8-2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           0xD         3016354.7         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           0xD         3016354.7         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           0xD         3016356.8         778716         AT&T Wireless         Hong King         05-Dec-96         24-Sep-03           0xD         324896/1956         AT&T Wireless         Japan         16-Jun-03         07-Jan-04           0xD         324896/1956         AT&T Wireless         Japan         16-Jun-03         07-Jan-04           0xD         355918         218372         AT&T Wireless         Japan         05-Dec-96         07-Jan-04   |            |                 |            | AT&T Wireless | Japan           | 11-Sep-96           |               | Handset   |
| CD1         300024         AT&T Wireless         Mexico         22-Oct-96         23-Dec-00           2190045         2865503         AT&T Wireless         United Slates         30-Oct-95         02-Feb-39           2190045         2190045         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           C         96119565.8-2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           C         96119565.8-2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           C         3016354.7         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           C         4103133.8         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           C         4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03           C         324896/1996         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           C         324896/1996         AT&T Wireless         Japan         05-Dec-96         07-Jan-04           X         965916         218372         AT&T Wireless         Japan         05-Dec-96         07-Jan-04   | 233.JP     | 239633/1996     |            | 2000111       |                 |                     |               | Armrest Cradie to     Electronic Communications |
| 965014         200024         AT&T Wireless         Mind Windless         Mind Clates         30-Oct-95         Q2-Feb-99           2190045         2465503         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           CD1         96119565.8-2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           CD1         3016354.7         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           CD1         3016354.7         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           S         96119565.8-2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         AT&T Wireless         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Japan         15-Jun-03         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           AT         AT&T Wireless         Japan         15-Jun-03         07-Jan-04         07-Jan-04           X         965916         218372         AT&T Wireless         Netherland         05-Dec-96         07-Jan-04           X         965916 <td></td> <td></td> <td></td> <td></td> <td>00:00</td> <td>22-Oct-96</td> <td>23-Dec-00</td> <td>Handset</td>   |            |                 |            |               | 00:00           | 22-Oct-96           | 23-Dec-00     | Handset   |
| CD1         300-01-95         02-Feb-99           2190045         AT&T Wireless         Canada         12-Nov-96         02-Feb-99           C         96119558.8         69630100.8         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           C         96119558.8-2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           C         3016354.7         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           S         4103133.8         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           C         4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03           C         4103133.8         AT&T Wireless         Japan         16-Jun-03         A-Sep-03           C         2003-170351         AT&T Wireless         Japan         16-Jun-03         A-Sep-03           X         965918         218372         AT&T Wireless         Nextoo         28-Nov-96         07-Jan-04           X         96519558         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03   | 233 MX     | 965014          | 200024     | AT&T Wireless | Mexico          | 20, 100, 27         |               | Armrest Cradle for                              |
| CD1   2003-170351   AT&T Wireless   United States   30-Oct-95   CZ-Feb-99   Table States   Canada   12-Nov-96   Canada   12-Nov-96   Canada   Canada   Canada   Canada   Canonalion   Canada   Canada   Canada   Canonalion   Canada   Canada   Canada   Canada   Canada   Canonalion   Canada     |            |                 |            |               |                 |                     |               | Electronic Communications                       |
| 2190045   2190  |            |                 |            | AT&T Wireless | United States   | 30-Oct-95           | 02-Feb-99     | Customer Activation                             |
| 2190045   | 233.US     | 08/550130       | 2002000    |               |                 |                     |               | System for Cellular                             |
| 2190045   |            |                 |            |               | · chang         | 12-Nov-96           |               | Network   |
| CD1         3016356.8         69630100.8         AT&T Wireless         Germany         05-Dec-96         24-Sep-03         N           CD1         3016354.7         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           CD1         3016354.7         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           CD1         3016354.7         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           CD1         3016354.7         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03         N           CD2         4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03         N           CD1         2003-170351         AT&T Wireless         Japan         16-Jun-03         1           X         965918         218372         AT&T Wireless         Japan         16-Jun-03         1           X         965918         778716         AT&T Wireless         Japan         16-Jun-03         16-Jun-03           X         965918         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  | 235.CA     | 2190045         |            | AT&T Wireless | Canada          |                     |               | Customer Activation                             |
| Sef19565.8   69630100.8   AT&T Wireless   Germany   O5-Dec-96   Z4-Sep-03   Notherland   O5-Dec-96   Z4-Sep-03     |            | ٠.              |            |               |                 |                     | 24 500 03     | System for Celiular                             |
| Sel 19565.8 2412   778716   AT&T Wireless   Convention   O5-Dec-96   24-Sep-03   N  | •          |                 | 60630400 8 | AT&T Wireless | Germany         | 05-Dec-96           | 24-2ep-03     | Customer Activation                             |
| 10   10   10   10   10   10   10   10   | 235.DE     | 96119565.8      | 030010000  |               |                 |                     |               | System for Cellular                             |
| 96119565.8-2412   778716   AT&T Wireless   Convention   U-D-0-C-36   S   S  |            |                 |            |               | European Patent | 90-200              | 24-Sep-03     | Network   |
| D1 3016354.7   AT&T Wireless   Convention   O5-Dec-96   S   | 235 EDC    | 96119565.8-2412 | 778716     | AT&T Wireless | Convention      | 200000              |               | Customer Activation                             |
| 3016354.7         AT&T Wireless         Convention         05-Dec-96         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03         N           324896/1996         AT&T Wireless         Japan         05-Dec-96         16-Jun-03           2003-170351         AT&T Wireless         Japan         16-Jun-03         16-Jun-04           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03   | 233:51     |                 |            |               | Furnham Patent  | •                   | :             | System for Cellular                             |
| 3016354.7         A1&1 Wireless         Convenion           96119565.8         778716         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03         P           4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         P         P           324896/1996         AT&T Wireless         Japan         05-Dec-96         P         P           2003-170351         AT&T Wireless         Japan         16-Jun-03         P         P           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03   |            |                 |            |               | Consortion      | 05-Dec-96           |               | Network   |
| 96119565.8         778716         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03         Sep-03         Name           4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03         Name           324896/1996         AT&T Wireless         Japan         05-Dec-96         16-Jun-03           2003-170351         AT&T Wireless         Japan         16-Jun-03         07-Jan-04           965918         216372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  | 235 EPC.D1 | 3016354.7       |            | AT&I WIreless | COINCINOI       |                     |               | Customer Activation                             |
| 96119565.8         778716         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03         N           4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         Co-Dec-96         Co-D  |            |                 |            |               | ·<br>·          | ·                   |               | System for Cellular                             |
| 96119565.8         778716         AT&T Wireless         Hong Kong         05-Dec-96         P           4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         P           D1         2203-170351         AT&T Wireless         Japan         16-Jun-03           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  |            |                 |            |               | Great Britain   | 05-Dec-96           | 24-Sep-03     | Network   |
| 4103133.8         AT&T Wireless         Hong Kong         05-Dec-96         P           324896/1996         AT&T Wireless         Japan         05-Dec-96         P           D1         2003-170351         AT&T Wireless         Japan         16-Jun-03         P           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119563.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  | 235.GB     | 96119565.8      | 778716     | AT&1 WIREIESS | Gleat Cincin    |                     |               | Customer Activation                             |
| 4103133.8         AT&T Wireless         Hong Kong         05-Dec-90           324896/1996         AT&T Wireless         Japan         05-Dec-96           D1         2003-170351         AT&T Wireless         Japan         16-Jun-03           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  |            |                 |            |               | :               |                     |               | Network   |
| 4103135.0         AT&T Wireless         Japan         05-Dec-96           324896/1996         AT&T Wireless         Japan         16-Jun-03           D1         2003-170351         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03   |            | 0 (00000        | <u>.</u>   | AT&T Wireless | Hong Kong       | 02-080-60           |               | Customer Activation                             |
| D1         2003-170351         AT&T Wireless         Japan         05-Dec-96         Process           C         2003-170351         AT&T Wireless         Japan         16-Jun-03           C         965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           G         96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  | 235.HK     | 4103133.0       |            |               |                 | •                   |               | System for Cellular                             |
| D1         2003-170351         AT&T Wireless         Japan         16-Jun-03           c         265918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           g6119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  |            |                 |            |               |                 | 05-096-96           |               | Network   |
| D1         2003-170351         AT&T Wireless         Japan         16-Jun-03           c         965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           g6119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  | 235.IP     | 324896/1996     |            | AT&T Wireless | Japan           |                     |               | Customer Activation                             |
| D1         2003-170351         AT&T Wireless         Japan         16-Jun-U3           965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  |            |                 |            |               |                 |                     |               | System for Cellular                             |
| D1         2003-170351         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           965918         218372         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  |            | •               |            | AT&T Wireless | Japan .         | 16-Jun-03           |               | Customer Activation                             |
| 965918         218372         AT&T Wireless         Mexico         28-Nov-96         07-Jan-04           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03   | 235.JP.D1  | 2003-170351     |            | 1510          |                 |                     |               | System for Cellular                             |
| 965918         218372         AT&T Wireless         Inexido         2010000           96119565.8         778716         AT&T Wireless         Netherland         05-Dec-96         24-Sep-03  |            |                 |            |               |                 | . OB MOW GR         | 07-Jan-04     | Network   |
| 96119565.8 778716 AT&T Wireless Netherland 05-Dec-96 24-Sep-03  | 235.MX     | 965918          | 218372     | AT&T Wireless | Mexico          | 20107               |               | Customer Activation                             |
| 96119565.8 778716 AT&T Wireless Nemerial of Control of | •          |                 |            |               |                 | 05_Dec.96           | 24-Sep-03     | System for Cancian<br>Network                   |
|   | 235 NI     | 96119565.8      | 778716     | AT&T Wireless | Netneriand      | 22.22.20            |               |   |

|                  |                       |                  |               | •                             |                     |               |   |                |
|------------------|-----------------------|------------------|---------------|-------------------------------|---------------------|---------------|---|----------------|
| Docket<br>Number | Application<br>Number | Patent<br>Number | Owner         | Country                       | Application<br>Date | Grant<br>Date | Title   |                |
| 235.US.C1        | 09/619108             | 6490445          | AT&T Wireless | United States                 | 19-Jul-00           | 03-Dec-02     | Customer Activation<br>System for Cellular<br>Network | Ē.             |
| 235.US.C1(1)     | 10/226755             | 6725033          | AT&T Wireless | United States                 | 23-Aug-02           | 20-Apr-04     | Customer Activation<br>System for Cellular<br>Network | 5.             |
| 235.US.C1(2)     | 10/814574             | 1                | AT&T Wireless | United States                 | 31-Mar-04           |               | Customer Activation<br>System for Cellular<br>Network | ر <sub>ك</sub> |
| 236.CA           | 2231452               | 2231452          | AT&T Wireless | Canada                        | 96-Sep-96           | 25-Jun-02     | Cordless Cellular System<br>Base Station              | System         |
| 236.CA.D1        | 2323253               |                  | AT&T Wireless | Canada                        | 96-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.CA.D2        | 2335283               |                  | AT&T Wireless | Canada                        | 06-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.CA.D3        | 2335275               |                  | AT&T Wireless | Canada                        | 96-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.EPC          | 96930783.4            |                  | AT&T Wireless | European Patent<br>Convention | 06-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.EPC.D1       | 2077853.6             |                  | AT&T Wireless | European Patent<br>Convention | 06-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.EPC.D2       | 2077852.8             |                  | AT&T Wireless | European Patent<br>Convention | 06-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.HK1          | 3103379.2             |                  | AT&T Wireless | Hong Kong                     | 13-May-03           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.HK2          | 3103378.3             |                  | AT&T Wireless | Hong Kong                     | 13-May-03           |               | Cordless Cellular System                              | System         |
| 236.JP           | 9-512751              |                  | AT&T Wireless | Japan                         | 06-Sep-96           |               | Cordless Cellular System<br>Base Station              | System         |
| 236.MX           | 981829                | 202590           | AT&T Wireless | Mexico                        | 96-Sep-96           | 22-Jun-01     | Cordless Cellular System<br>Base Station              | System         |
| 236.US           | -260934               | 5675629          | AT&T Wireless | United States                 | 08-Sep-95           | 07-Oct-97     | Cordless Cellular System Base Station .               | System         |
| 236.US.D2(1)     | 10/279866             | 6681118          | AT&T Wireless | United States                 | 25-0ct-02           | 20-Jan-04     | Cordless Cellular System                              | System         |
| 236.US.D3(1)     | 10/235039             | 6611692          | AT&T Wireless | United States                 | 04-Sep-02           | 26-Aug-03     | Cordless Cellular System                              | System         |
| 236.US.D3(2)     | 10/647105             |                  | AT&T Wireless | United States                 | 22-Aug-03           |               | Cordless Cellular System                              | System         |
| 239.CA           | 2261927               | 2261927          | AT&T Wireless | Canada                        | 11-Jul-97           | 18-Nov-03     | Method for Allocating a<br>Mobile Station TMSI        | Ing a<br>St    |
|                  |                       | -                |               |                               | 1                   |               |   |                |

| Docket    | Application | Patent  |                                       | Country                               | Application     | Grant     | Title   |  |
|-----------|-------------|---------|---------------------------------------|---------------------------------------|-----------------|-----------|---|--|
| Number    | Number      | Number  | Owner                                 | European Patent                       |                 |           | Method for Allocating a                                   |  |
| 239 FPC   | 97934931.3  | •       | AT&T Wireless                         | Convention                            | 11-Jul-97       |           | Mobile Station, Livisi                                    |  |
|           |             |         | AT&T Wireless                         | Mexico                                | 11-Jul-97       | 18-Dec-01 | Method for Allocating a Mobile Station TMSI               |  |
| 239.MX    | 990960      | 00/602  |                                       | Tohuga                                | 15_111-97       | 11-Sep-98 | Method for Allocating a Mobile Station TMSI               |  |
| 239.TW    | 86109994    | 94590   | AI&I Wireless                         | Idwall                                |                 |           | Method for Allocating a                                   |  |
| 31066     | 08/688626   | 6039624 | AT&T Wireless                         | United States                         | 29-Jul-96       | 21-Mar-00 | Mobile Station TMSI                                       |  |
| 00.657    |             |         |                                       | Australia                             | 19-Dec-96       | 16-Mar-00 | Wireless Communication System Organization                |  |
| 243.AU    | 75470/96    | 713550  | Alai Wileless                         |                                       |                 |           | Method and Apparatus for Wireless Communication           | <u>.                                    </u>       |
| 040       | . 0606032   |         | AT&T Wireless                         | Brazil                                | 17-Dec-96       |           | System Organization                                       | <del></del>  |
| 243.0K    | 300000      |         | and lost to the                       | Canada                                | 18-Nov-96       | 24-Oct-00 | Wireless Communication System Organization                |  |
| 243.CA    | 2190552     | 2190552 | Alai Wilefess                         |                                       |                 |           | Method and Apparatus for Wireless Communication           |  |
| 00.00     | 0625564 1   | 2308952 | AT&T Wireless                         | Great Britain                         | 09-Dec-96       | 08-Mar-00 | System Organization                                       |  |
| 243.00    |             |         | · · · · · · · · · · · · · · · · · · · | eipal                                 | 22-Nov-96       |           | Wireless Communication System Organization                | <del>.                                      </del> |
| 243.IN    | 2096/MAS/96 |         | Algi Wileigas                         |                                       |                 |           | Method and Apparatus for                                  |  |
| 243 10    | 338822      |         | AT&T Wireless                         | Japan                                 | 19-Dec-96       |           | System Organization Method and Apparatus for              |  |
| 10:043    |             |         | A TO T A CONTRACT OF A                | United States                         | <br>  21-Dec-95 | 02-Mar-99 | Wireless Communication<br>System Organization             | <del>-</del> -                                     |
| 243.US    | 08/575974   | 5878328 | Alai Wieless                          |                                       |                 | 90        | Concurrent Ringing on Multiple Network                    |  |
| 246.TW    | 86108830    | 101482  | AT&T Wireless                         | Talwan                                | Z4-JUI-9/       |           | Concurrent Ringing on<br>Multiple Network                 | Γ  |
| 246.US    | 08/669805   | 6405041 | AT&T Wireless                         | United States                         | 27~Jun-96       | 11-Jun-02 | Telephones Concurrent Ringing on                          | _  |
|           |             |         | . AT&T Wireless                       | United States                         | 15-Apr-02       | 24~Jun-03 | Multiple Network<br>Telephones                            | 7  |
| 246.US.C1 | 10/123466   | 629451  | Social Manager                        | S S S S S S S S S S S S S S S S S S S | 22-Nov-96       | 14-Dec-99 | Packet Data Transmission Using Dynamic Channel Assignment | <del></del> ]                                      |
| 247.CA    | 2238552     | 2238552 | AIGI WIRBESS                          | Callada                               |                 |           |   |  |

|                       |   |   |   | <u> </u>  |   |  |                                       |  |                           |                                       |  |                                      |   | _             |  | ٦                   |
|-----------------------|---|---|---|---|---|--|---------------------------------------|--|---------------------------|---------------------------------------|--|--------------------------------------|---|---------------|--|---------------------|
| <u> </u>              | ransmission<br>c Channel  | ransmission<br>c Channel  | ransmission<br>c Channel  | ransmission<br>c Channel  | pparatus for<br>ation<br>of on a  | Information  | pparatus for                          | cation<br>d on a<br>offile Undated                               | Information               | pparatus for                          | cation<br>od on a<br>ofile Updated                               | Information                          | pparatus for cation ad on a offile Updated Information  |               | pparatus for<br>cation                               | e uo pe             |
| Title                 | Packet Data Transmission<br>Using Dynamic Channel<br>Assignment | Method and Apparatus for<br>Providing<br>Telecommunication<br>Services Based on a | Subscriber Profile Opdated by a Personal Information Manager | Method and Apparatus for<br>Providing | Telecommunication Services Based on a Subscriber Profile Undated | by a Personal Information | Method and Apparatus for<br>Providing | Telecommunication Services Based on a Subscriber Profile Updated | by a Personal Information<br>Manager | Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information | Manager       | Method and Apparatus for Providing Telecommunication | Services Based on a |
| Grant<br>Date         |   | 13-Dec-01   |   | 04-Aug-98   |   |  |                                       |  | 18-Feb-03                 |                                       |  |                                      |   |               |  | 09-Jun-03           |
| Application<br>Date   | 22-Nov-96   | 22-Nov-96   | 22-Nov-96   | 28-Nov-95   |   | 19-May-97  |                                       |  | 19-May-97                 |                                       |  | 19-May-97                            | ·   | 19-May-97     |  | 19-May-97           |
| Country               | atent   |   | Patent<br>Cooperation<br>Treaty                                 | States  |   | Brazil   |                                       |  | Canada                    |                                       |  | European Patent Convention           |   | Japan         |  | Mexico              |
| Owner                 | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   |   | AT&T Wireless  |                                       |  | AT&T Wireless             |                                       |  | AT&T Wireless                        |   | AT&T Wireless |  | AT&T Wireless       |
| Patent<br>Number      |   | 205488  | ·   | 5790551   |   |  |                                       |  | 2228169                   |                                       |  |                                      |   |               |  | 214649              |
| Application<br>Number | 96939741.3  |   | 96/18743  | 08/563816   |   | 384115   |                                       | 0  | 2228169                   |                                       |  | 97926592.3                           |   | 10-500600     |  | 980829              |
| Docket                |   |   | 247.PCT   | 247.US  |   | 248.BR   |                                       |  | 248.CA                    |                                       |  | 248.EPC                              |   | 248.JP        |  | 248.MX              |

|          |                | *       |               |               |                     |               | . •  |
|----------|----------------|---------|---------------|---------------|---------------------|---------------|--|
| Docket   | Application    | Patent  |               | Country       | Application<br>Date | Grant<br>Date | Title  |
| Number   | Number         | Number  | Owie          |               |                     |               | Subscriber Profile Updated by a Personal Information |
|          |                |         |               |               |                     |               | Manager  |
|          |                |         |               |               |                     |               | Method and Apparatus for                             |
|          |                |         |               |               |                     |               | Providing<br>Telecommunication                       |
|          |                |         | :             |               |                     |               | Services Based on a                                  |
| •        |                |         |               |               |                     |               | Subscriber Profile Updated                           |
|          |                |         |               |               |                     |               | by a Personal Information                            |
|          |                |         | AT&T Wireless | Norway        | 19-May-97           |               | Manager  |
| 248.NO   | 19980461       |         |               |               |                     |               | Method and Apparatus to:                             |
|          |                |         |               |               |                     |               | Telecommunication                                    |
|          |                |         |               |               |                     | ٠             | Services Based on a                                  |
|          | · ·            | :       |               | Patent        |                     |               | Subscriber Profile Updated                           |
|          |                |         | •             | Cooperation   | 10 MAN 07           | . ·           | Manager Manager                                      |
| 248.PCT  | PCT/US97/08455 |         | AT&T Wireless | Ireary        | 10-KBIAI-CI         |               | Method and Apparatus for                             |
|          |                |         |               |               |                     |               | Providing  |
| •        |                | ·       |               |               |                     |               | Telecommunication                                    |
|          |                |         |               |               |                     |               | Subscriber Profile Updated                           |
|          |                |         |               |               |                     |               | by a Personal Information                            |
|          |                |         | ATOTIMireless | Taiwan        | 30-May-97           | 18-Jun-98     | Manager  |
| 248.TW   | 86107435       | 93010   | AIGI WIIGIGSS |               |                     |               | Method and Apparatus for                             |
|          | •              |         |               |               |                     |               | Providing  |
|          |                |         |               |               |                     | <u></u>       | Services Based on a                                  |
|          |                |         |               | :             |                     |               | Subscriber Profile Updated                           |
|          | ·              |         |               |               | 90 4:1, 10          | 03-Aug-99     | Manager  |
| 248.US   | 888849         | 5933778 | AT&T Wireless | United States | Oct 100-40          | B             | Method and Apparatus for                             |
|          |                |         |               | -             | ····                |               | Maintaining Channel                                  |
|          | -              |         |               | -             |                     |               | Priority in a Multiple                               |
| •        |                |         |               | . :           | 77                  |               | System Environment                                   |
| . 350 BB | 9706555        | •       | AT&T Wireless | Brazil        | 11-300-87           | -             | Method and Apparatus for                             |
| 200.00   |                |         | :             |               | <u>.</u>            | ·             | Maintaining Channel                                  |
|          |                |         |               | <u>.</u>      | ·                   |               | Priority in a Multiple                               |
|          |                |         |               |               | 77                  | 22: Ian-02    | System Environment                                   |
| 250 CA   | 2237597        | 2237597 | AT&T Wireless | Canada        | 11-Jun-9/           | 24-VAII-VA    | -  |
|          |                |         |               |               |                     |               |  |

| Docket       | Application                             | Patent   |               | Country         | Application | Grant     | ••••  |
|--------------|---|----------|---------------|-----------------|-------------|-----------|---|
|              | Number                                  | Number   | Owner         | Name            | Date        | Date      | Title   |
| <del> </del> |   |          |               |                 | - 140       | ·         | Method and Apparatus for Maintaining Channel                    |
|              | 0.00.00.00.00.00.00.00.00.00.00.00.00.0 | 70000    | T&T Windows   | ·               | 11- lin-07  | 08-11-01  | Priority in a Multiple Wireless Communication System Fryinghant |
| t            |   |          | 2000          | 200             |             |           | Method and Apparatus for  |
|              | • .                                     |          |               |                 |             | •         | Maintaining Channel   |
|              |   |          | ·:            |                 |             | •         | Wireless Communication  |
|              |   |          |               |                 |             |           | System Environment  |
|              |   |          |               |                 |             |           | Method and Apparatus for  |
|              |   |          | -             |                 |             |           | Maintaining Channel   |
|              |   |          |               |                 |             |           | Priority in a Multiple  |
| $\exists$    | 86108843                                | 96577    | AT&T Wireless | Taiwan          | 23-Jun-97   | 16-Dec-98 | Wireless  |
|              |   |          |               |                 |             |           | Method and Apparatus for  |
|              |   |          |               |                 |             |           | Maintaining Channel   |
|              |   | •        |               |                 |             |           | Priority in a Multiple  |
|              |   |          |               | I letted Obeta  | 00 117      | 001-007   | Wireless Communication  |
| 1            | 08/672898                               | 5966642  | AT&T Wireless | United States   | 28-Jun-96   | 12-Oct-99 | System Environment  |
| _            |   |          |               |                 |             |           | A Method for Selecting a  |
|              |   |          |               |                 |             |           | Commission Socies   |
| _            |   |          |               |                 |             |           | Provider in a Multi-Service                                     |
| _            | 2188329                                 | 2188329  | AT&T Wireless | Canada          | 21-Oct-96   | 01-May-01 | Provider Environment  |
| T            | 2000                                    | 2200012  |               |                 |             |           | A Method for Selecting a  |
|              |   |          |               |                 |             |           | Preferable Wireless   |
|              |   |          |               |                 |             |           | Communications Service  |
|              |   |          |               |                 |             |           | Provider in a Multi-Service                                     |
|              | 96120010.2                              | 69628270 | AT&T Wireless | Germany         | 12-Dec-96   | 21-May-03 | Provider Environment  |
| T            |   |          |               |                 |             |           | A Method for Selecting a  |
|              |   |          |               |                 |             |           | Preferable Wireless   |
|              |   |          | -             |                 |             | -         | Communications Service  |
|              |   | ,        |               | European Patent | 000         | 24 142    | Provider in a Multi-Service                                     |
| 1            | 96120010.2                              | 779753   | AT&T Wireless | Convention      | 12-Dec-90   | Z1-May-03 | A Mathod for Solocting 2  |
|              | ٠.                                      |          |               |                 |             |           | Preferable Wireless   |
|              | :                                       |          |               |                 |             |           | Communications Service  |
|              |   | <u>:</u> |               | European Patent |             |           | Provider in a Multi-Service                                     |
|              | 3011438.3                               |          | AT&T Wireless | Convention      | 12-Dec-96   |           | Provider Environment  |
|              |   |          |               |                 |             |           | A Method for Selecting a  |
| -            | •                                       |          |               |                 |             |           | Preferable Wireless   |
|              |   | •        | -             |                 |             |           | Communications Service  |
|              | 96120010.2                              | 770752   | AT&T Wireless | France          | 12.Dec.98   | 21-May-03 | Provider in a Multi-Service<br>Provider Environment             |
|              | 30120010.2                              | 113130   | 20000111      | 7 10:10         | 2000 20     | AA /      |   |

|              | •            |          |   |                 |             | -           |  |
|--------------|--------------|----------|---|-----------------|-------------|-------------|--|
| Dockot       | Application  | Patent   |   | Country         | Application | Grant       |  |
| Docker       | Mimbor       | Number   | Owner                                   | Name            | Date        | Date        | IIIIe  |
| Number       | Number       | Maile    |   |                 |             |             | A Method for Selecting a Preferable Wireless |
|              |              |          |   |                 |             |             | Communications Service                       |
| -            |              |          |   |                 |             |             | Provider in a Multi-Service                  |
|              |              |          | Cooles to To Ta                         | Great Britain   | 12-Dec-96   | 21-May-03   | Provider Environment                         |
| 252.GB       | 96120010.2   | 779753   | A1&1 Wireless                           | Glear Chien     |             | ŀ           | A Method for Selecting a                     |
|              | -            |          |   |                 | •           | ٠           | Preferable Wireless                          |
| -            |              |          |   |                 |             |             | Communications Service                       |
|              |              |          |   |                 |             |             | Provider in a Multi-Service                  |
|              |              |          | ATOT Mission                            | Movico          | 09-Dec-96   |             | Provider Environment                         |
| 252.MX       | 966232       |          | Alai Wireless                           | MICHIGA         |             |             | A Method for Selecting a                     |
|              |              |          |   |                 |             |             | Preferable Wireless                          |
| •            | ,            |          |   |                 |             |             | Communications Service                       |
|              | •            |          | •                                       |                 |             |             | Provider in a Multi-Service                  |
|              |              | 0,00,00  | ATRT Mirelese                           | United States   | 12-Dec-95   | 09-Jul-02   | Provider Environment                         |
| 252.US       | 08/570904    | 0418318  | Scolour Miles                           |                 |             |             | A Method for Selecting a                     |
|              |              |          |   |                 |             |             | Preferable Wireless                          |
|              |              |          |   |                 |             |             | Communications Service                       |
|              |              |          |   |                 |             |             | Provider In a Multi-Service                  |
|              |              |          | A TOT Mission                           | United States   | 19-Mar-02   | 24-Aug-04   | Provider Environment                         |
| 252.US.C1    | 10/099944    | 6782259  | Alai Wiidida                            |                 |             |             | A Method for Selecting a                     |
| •            |              |          |   | ,               |             |             | Preferable Wireless                          |
|              |              |          |   |                 |             |             | Communications Service                       |
| •            |              |          |   |                 |             |             | Drowlder Frankforment                        |
| 1777 011010  | 7000         |          | AT&T Wireless                           | United States   | 26-May-04   |             | Flovider Friedrices                          |
| 252.US.C1(1) | mailed       |          |   |                 |             |             | A Method for Selecting a                     |
|              |              | <u>-</u> |   | :               |             |             | Wireless Service Provider                    |
|              |              |          |   |                 |             |             | In a Multi-Service Provices                  |
|              |              |          |   |                 |             |             | Goographic Database                          |
| 2000         | 2400222      | 2188333  | AT&T Wireless                           | Canada          | 21-Oct-96   | no-wnb-nz   | Mothod for Salecting a                       |
| 433.CA       | 7100333      | 200014   |   |                 | :           |             | Wireless Service Provider                    |
| •            |              | ٠.       |   | •               |             |             | In a Multi-Service Provider                  |
|              |              |          |   |                 |             |             | Environment Using A                          |
|              |              |          |   | 70000           | 12-Dec-96   | 16-Jun-04   | Geographic Database                          |
| 253.DE       | 69632713.908 | 779752   | AT&T Wireless                           | Germany         | 2002-21     |             | Method for Selecting a                       |
|              |              |          |   |                 |             |             | Wireless Service Provider                    |
|              |              |          | ٠.                                      |                 |             |             | in a Multi-Service Provider                  |
|              |              |          |   | European Patent |             |             | Environment Using A                          |
|              |              |          | ATRT Wireless                           | Convention      | 12-Dec-96   | 16-Jun-04   | Geographic Database                          |
| 253.EPC      | 96120005.2   | 76/6/    | 200111111111111111111111111111111111111 |                 |             |             | A Method for Selecting a                     |
|              |              |          |   |                 |             |             | Wireless Service Provider                    |
| •            |              |          |   |                 | 90 000      | . 02-hid-01 | Environment Using a                          |
| 253 MX       | 966231       | 202750   | AT&T Wireless                           | Mexico          | 08-080-80   | 1 05 201 2  |  |
|              |              |          |   | •               |             | •           |  |

| Docket<br>Number | Application<br>Number | Patent<br>Number | Owner         | Country<br>Name               | Application<br>Date  | Grant<br>Date | Tite   |  |
|------------------|-----------------------|------------------|---------------|-------------------------------|----------------------|---------------|--|--|
|                  |                       |                  | •             | *                             |                      |               | Geographic Database  | ase                                      |
| 253.US           | 08/570903             | 5905955          | AT&T Wireless | Inited States                 | 2.<br>7. D. O. O. R. |               | A Method for Selecting a Wireless Service Provider in a Mutti-Service Provider Environment Using a | cting a<br>Provider .<br>Provider<br>g a |
| 255.CA           | 2282443               | 2282443          | AT&T Wireless | Canada                        | 03-Feb-98            | 14-Oct-03     | Vireless Communication<br>Service Manadement   | lication                                 |
| 255.EPC          | 98904684.2            |                  | AT&T Wireless | European Patent<br>Convention | 03-Feb-98            |               | Wireless Communication<br>Service Manadement   | ication                                  |
| 255.MX           | 997818                | 210069           | AT&T Wireless | Mexico                        | 03-Feb-98            | 02-Sep-02     | Wireless Communication<br>Service Management   | ication                                  |
| 255.TW           | 87101700              | 106908           | AT&T Wireless | Taiwan                        | 09-Feb-98            | 12-Jan-00     | Wireless Communication<br>Service Management   | ication                                  |
| 255.US           | 08/810959             | 6167261          | AT&T Wireless | United States                 | 27-Feb-97            | 26-Dec-00     | Wireless Communication<br>Service Management   | ication<br>ent                           |
| 256.CA           | 2244682               | 2244682          | AT&T Wireless | Canada                        | 11-Aug-98            | 30-Mar-04     | Wireless Communication<br>Device With Call Screening   | ication                                  |
| 256.US           | 08/909387             | 6567671          | AT&T Wireless | United States                 | 11-Aug-97            | 20-May-03     | Wireless Communication<br>Device With Call Screening   | lcation<br>creening                      |
| 256.US.D1        | 10/406912             |                  | AT&T Wireless | United States                 | 02-Apr-03            |               | Wireless Communication<br>Device With Call Screening   | ication                                  |
| 258.AU           | 16648/97              | 749334           | AT&T Wireless | Australia                     | 01-Apr-97            | 24-Oct-02     | Method for Delermining Organization Parameters in a Wireless Communication System                  | ining<br>meters in<br>inication          |
| 258.AU.D1        | 773877                |                  | AT&T Wireless | Australia                     | 20-Mar-02            |               | Method for Determining<br>Organization Parameters in<br>a Wireless Communication<br>System         | ining<br>meters in<br>inication          |
| 258.BR           | 126070                |                  | AT&T Wireless | Brazil                        | 27-Mar-97            |               | Method for Determining Organization Parameters in a Wireless Communication System                  | ining<br>meters in<br>inication          |
| 258.CA           | 2199310               | 2199310          | AT&T Wireless | Canada                        | 06-Mar-97            | 23-Apr-02     | Method for Détermining<br>Organization Parameters in<br>a Wireless Communication<br>System         | ining<br>meters in<br>inication          |
|                  |                       |                  |               |                               | ٠.                   |               |  |  |

|           |             |          |               |                 |                     | •             | •                                       |
|-----------|-------------|----------|---------------|-----------------|---------------------|---------------|---|
| Docket    | Application | Patent   |               | Country         | Application<br>Date | Grant<br>Date | Title                                   |
| Number    | Number      | Number   | Owilei        | 2111124         |                     |               | Method for Determining                  |
|           |             |          |               |                 |                     |               | Organization Parameters in              |
|           | *           |          |               |                 |                     |               | a Wireless Communication                |
|           |             | 02440470 | AT&T Wireless | Great Britain   | 01-Apr-97           | 11-Oct-00     | System                                  |
| 258.GB    | 9706533.8   | 73118170 | 3             |                 |                     |               | Method for Determining                  |
|           |             | •        |               |                 |                     |               | Organization Parameters III             |
|           |             | -        | :             |                 |                     |               | a Wireless Communication                |
|           |             |          | ATET Wireless | India           | 04-Apr-97           |               | System.                                 |
| 258.IN    | 717/MAS/97  |          | Algi viididəs |                 |                     |               | Method for Determining                  |
|           |             | -        |               |                 |                     |               | Organization Parameters in              |
| _•.       | •           |          |               |                 |                     |               | a Wireless Communication                |
|           |             |          |               | 1000            | 04-Anr-97           |               | System                                  |
| 258.JP    | 85443/1997  |          | Alai Wireless | dayan           |                     |               | Method for Determining                  |
|           |             |          |               |                 |                     |               | Organization Parameters In              |
|           |             |          |               |                 |                     |               | a Wireless Communication                |
|           | 7100000     | 6406700  | AT&T Wireless | United States   | 04-Apr-96           | 17-Dec-02     | System                                  |
| 228.03    | 00/070714   | 00.00    |               |                 |                     |               | Method for Determining                  |
|           |             |          |               |                 |                     |               | Organization Halanteers                 |
|           |             |          |               |                 |                     |               | System                                  |
| 258115.02 | 10/082402   | •        | AT&T Wireless | United States   | 25-rep-02           |               | Mothod and System for                   |
| 230,03.02 | 10,005,05   |          |               |                 |                     |               | Automatic Activation of a               |
|           | ·           |          |               |                 | . 45 Let 07         |               | Wireless Device                         |
| 260.BR    | 1992490     |          | AT&T Wireless | Brazil          | 10-100-01           |               | Method and System for                   |
|           |             |          |               | •               |                     | _             | Automatic Activation of a               |
|           |             |          |               | 50000           | 03_htt-97           | 12-Jun-01     | Wireless Device                         |
| 260.CA    | 2209528     | 2209528  | AT&I Wireless | Caliada         |                     |               | Method and System for                   |
|           |             |          |               | European Patent |                     | •             | Automatic Activation of a               |
|           |             | •        | ATOT Mireless | Convention      | 26-Jun-97           |               | Wireless Device                         |
| 260.EPC   | 97304542    |          | AIGH WHICHOS  |                 |                     |               | Method and System for                   |
|           |             |          |               | ·               | :                   |               | Automatic Activation of a               |
|           |             |          | AT9T Wireless | Japan           | 16-Jul-97           |               | Wireless Device                         |
| 260.JP    | 190864/1997 |          | 2000          |                 |                     |               | Method and System for                   |
|           |             |          |               |                 |                     | ;             | Automatic Activation of a               |
|           |             | 207160   | AT&T Wireless | Mexico          | 08-Jul-97           | 14-Mar-02     | Wireless Device                         |
| 260.MX    | 975114      | 507.103  |               |                 |                     |               | Method and System for                   |
|           |             | -        | ٠             |                 |                     |               | Automatic Activation of a               |
|           |             |          | AT&T Wireless | Norway          | 08-Jul-97           |               | Wireless Device                         |
| 260.NO    | 19973158    |          |               |                 |                     | *             | Method and System for                   |
|           |             |          |               |                 |                     |               | Automatic Activation of a               |
| 1         | 96400694    | 05061    | AT&T Wireless | Taiwan          | 09-Jul-97           | 16-Nov-98     | Wireless Device                         |
| Z60.1W    | 1000100     | 10000    |               |                 | *                   |               | Method and System to:                   |
|           |             |          |               |                 | 90 1.1 07           | 24.Cap.00     | Wireless Device                         |
| 31 090    | 08/683013   | 5956636  | AT&T Wireless | United States   | 08-INC-01           | 1 41-361-33   | 1 |

| Number    | Application<br>Number | Patent<br>Number | Owner         | Country<br>Name               | Application<br>Date | Grant<br>Date | Title  |
|-----------|-----------------------|------------------|---------------|-------------------------------|---------------------|---------------|--|
| 262.CA    | 2259329               | 2259329          | AT&T Wireless | Canada                        | 02-Jun-97           | 01-Jun-04     | TDMA Messaging Service<br>Microcell  |
| 262.EPC   | 97927794.4            |                  | AT&T Wireless | European Patent<br>Convention | 02-Jun-97           |               | TDMA Messaging Service<br>Microcell  |
| 262.JP    | 10-504109             |                  | AT&T Wireless | Japan                         | 02-Jun-97           |               | TDMA Messaging Service   |
| 262.MX    | 990211                |                  | AT&T Wireless | Mexico                        | 02-Jun-97           |               | TDMA Messaging Service   |
| 262.US    | 08/672769             | 5875187          | AT&T Wireless | United States                 | 28-Jun-96           | 23-Feb-99     | TDMA Messaging Service   |
| 262.US.C1 | 09/168919             |                  | AT&T Wireless | United States                 | 09-Oct-98           |               | TDMA Messaging Service<br>Microcell  |
| · · ·     |                       |                  |               |                               |                     |               | Method for Optimal<br>Selection Among Multiple<br>Providers in a Wireless                              |
| 263.BR    | 9710455-8             | 9710455-8        | AT&T Wireless | Brazil                        | 24-Jun-97           | 10-Dec-02     | Communications Service   |
|           |                       |                  |               | ·                             |                     |               | Method for Optimal<br>Selection Among Multiple<br>Providers to a Mireless                              |
| 263.CA    | 2259230               | 2259230          | AT&T Wireless | Canada                        | 24-Jun-97           | 07-Jan-03     | Communications Service Environment   |
|           |                       |                  |               | i.                            |                     |               | Method for Optimal<br>Selection Among Multiple<br>Providers in a Wireless                              |
| 263.EPC   | 97932326.8            |                  | AT&T Wireless | European Patent<br>Convention | 24-Jun-97           |               | Communications Service Environment   |
| 263.JP    | 10-504316             |                  | AT&T Wireless | Japan                         | 14-Dec-98           |               | Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment |
| 263.TW    | 86108823              | 94720            | AT&T Wireless | Taiwan                        | 24-Jun-97           | 18-Sep-98     | Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment |
| 263.US    | 08/672907             | 5845198          | AT&T Wireless | United States                 | 28-Jun-96           | 01-Dec-98     | Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment |
| 265.CA    | 2215819               | 2215819          | AT&T Wireless | Canada                        | 19-Sep-97           | 01-Jan-02     | Method and Apparatus for   |

| AT&T Wireless M. AT&T Wireless U AT&T Wireless AT& |              |                | -               | _                | •         |   |
|--|--------------|----------------|-----------------|------------------|-----------|---|
| ber         Number         Owner           ber         Number         Owner           corps         212046         AT&T Wireless         M           corps         6343120         AT&T Wireless         U           c5895         5953652         AT&T Wireless         U           c5895         5953652         AT&T Wireless         U           c2         6006087         AT&T Wireless         U           c2         10/147408         6418307         AT&T Wireless         U           c2         10/147408         AT&T Wireless         U           c         98122142.7         AT&T Wireless         U           c         9810043         AT&T Wireless         U           c         384268         AT&T Wireless         AT&T Wireless  |              |                | Country         | Application Date | Grant     | Title   |
| 977677   | -            | Owner          |                 | -                |           | Providing a Caller ID Alias                             |
| 2007953   212046   AT&I Wireless   Wireles   |              |                |                 | 20 000           | 13-Dec-02 | Method and Apparatus for<br>Providing a Caller ID Alias |
| S7100664   | 212046       | AT&T Wireless  | Mexico          | 26-120-00        |           | Method and Apparatus for                                |
| 107516   AT&T Wireless   Tage  | 6343120      | AT&T Wireless  | United States   | 08-Oct-96        | 29-Jan-02 | Providing a Caller ID Alias                             |
| S7100664   107516   A1&1 Wireless   U    -65895   5953652   A7&1 Wireless   U    -65895   5953652   A7&1 Wireless   U    -65895   6906087   A7&1 Wireless    -65895   6600883   A7&1 Wireless    -65895   A7&1 Wireless    -65895   A7&1 Wireless    -660087   A7&1 Wireless    -660088   A7&1 Wire   |              | TOTA CONTACTOR | Taiwan          | 19-Jan-98        | 31-Jan-00 | Registered Mobile Phones                                |
| -65895   5953652   AT&I Wireless   U   08/838613   6006087   AT&I Wireless   U   C1   09/448904   6418307   AT&I Wireless   U   AT&I Wireless   U   AT&I Wireless   C2251569   AT&I Wireless   |              | AIGI WIEGES    | 11-ited Chatee  | 24_lan_07        | 14-Sep-99 | Detection of Fraudulently<br>Registered Mobile Phones   |
| C1 09/448904 6418307 AT&T Wireless U C2 10/147408 6418307 AT&T Wireless U C2 10/147408 AT&T Wireless AT&T WIRELE W | 5953652      | AT&T Wireless  | Onlied States   | C-I-Called       |           | Method and System for                                   |
| C1 09/448904 6418307 AT&T Wireless U C2 10/147408 6418307 AT&T Wireless AT&T WIRELE WIREL WIRELE WIR |              | <del></del>    |                 |                  |           | Delivering a Voice Mail<br>Notification to a Subscriber |
| C1         09/448904         6418307         AT&T Wireless         United by the control of the c  |              |                | 00000 F -1-1    | 40 Apr 07        | 21.Dec-99 | Using Cellular Phone<br>Network                         |
| 10/147408 6418307 AT&T Wireless 10/147408 AT&T Wireless 418122142.7 AT&T Wireless 98122142.7 AT&T Wireless 9810043 AT&T Wireless 384268 AT&T Wireless AT&T W |              | AT&T Wireless  | United States   | 65170            |           | Method and System for                                   |
| 09/448904       6418307       AT&T Wireless       L         10/147408       AT&T Wireless       I         2251589       AT&T Wireless       I         98122142.7       AT&T Wireless         9810043       AT&T Wireless         -179851       6630883       AT&T Wireless         384268       AT&T Wireless  |              |                |                 |                  |           | Delivering a Voice Mail                                 |
| 10/147408 6418307 AT&T Wireless 10/147408 AT&T Wireless AT&T Wireless 98102142.7 AT&T Wireless 9810043 AT&T Wireless AT&T Wireless 384268 AT&T Wireless AT&T | ·            |                |                 |                  |           | Using Cellular Phone                                    |
| 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless   |              | ATOT Missings  | 1 United States | 29-Nov-99        | 09-Jul-02 | Network   |
| 10/147408 AT&T Wireless AT&T Wireless 98122142.7 AT&T Wireless AT&T Wireless 9810043 AT&T Wireless A |              | A101 WILGIGSS  |                 |                  |           | Method and System for                                   |
| 10/147408 AT&T Wireless 2251569 AT&T Wireless 98122142.7 AT&T Wireless 9810043 AT&T Wireless AT&T Wireless 384268 AT&T Wireless  |              |                |                 |                  |           | Delivering a Voice Mail                                 |
| 10/147408 AT&T Wireless 2251589 AT&T Wireless 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless  | -            |                |                 |                  | •         | Using Cellular Phone                                    |
| 10/147408 AT&I Wireless 2251589 AT&T Wireless 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless  |              |                | 1 Inited States | 15-Mav-02        |           | Network   |
| 2251589 AT&T Wireless 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless  | 90           | Al&I Wireless  | Olinco Olinco   |                  |           | Method and System for                                   |
| 2251589 AT&T Wireless 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless AT&T Wireless AT&T Wireless   |              |                |                 |                  |           | Delivering a Short-                                     |
| 2251589 C 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless AT&T Wireless AT&T Wireless   |              | AT&T Wireless  | Canada          | 27-Oct-98        |           | Message Notification                                    |
| 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless  |              | 3              |                 |                  |           | Method and System is                                    |
| 98122142.7 AT&T Wireless 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless  |              |                | European Patent | 25-Nov-98        | ·         | Message Notification                                    |
| 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless   | 42.7         | AT&T Wireless  | COIIVEINIOII    |                  |           | Method and System for                                   |
| 9810043 AT&T Wireless -179851 6630883 AT&T Wireless 384268 AT&T Wireless   |              |                |                 | ;                |           | Delivering a Short                                      |
| 384268 6630883 AT&T Wireless   |              | AT&T Wireless  | Mexico          | 30-Nov-98        |           | Method and System for                                   |
| -179851 6630883 AT&T Wireless 384268 AT&T Wireless   | 2            |                |                 |                  |           | Delivering a Short                                      |
| -1/3631  |              | AT&T Wireless  | United States   | 02-Dec-97        | 07-001-03 | Personal Information                                    |
| 384268 AT&T Wireless   |              |                |                 |                  | ,         | Manager for Updating a                                  |
| 384268 AT&T Wireless   | . ·          |                | *               |                  |           | Telecommunication                                       |
|  |              | AT&T Wireless  | Brazil          | 19-May-97        |           | 8   |
|  | ·            |                |                 | 40 1/20 07       | 12-Sep-00 | Manager for Updating a Telecommunication                |
| AT&T Wireless  | 39 . 2228139 | AT&T Wireless  | Canada          | 19-May-97        | 20031     |   |

|           |                |         |               |                 |                        | C.50.04    |   |     |
|-----------|----------------|---------|---------------|-----------------|------------------------|------------|---|-----|
| Docket    | Application    | Patent  | . 0           | Country         | Application<br>Date    | Date       | Title                                       |     |
| Number    | Number         | Number  | OWIG          |                 |                        |            | Subscriber Profile                          |     |
|           | *              |         |               |                 |                        |            | Personal Information                        |     |
|           |                |         |               | European Patent |                        |            | Manager for Updating a<br>Telecommunication |     |
|           |                |         | ATRT Wireless | Convention      | 19-May-97              |            | Subscriber Profile                          |     |
| 272.EPC   | 97925647.6     |         | Algi Wildigs  |                 |                        |            | Personal Information                        |     |
| -         |                |         |               |                 | •                      |            | Manager for Updating a                      |     |
|           |                |         |               |                 |                        |            | l elecommunication                          |     |
| 272.JP.D1 | 2002-258849    |         | AT&T Wireless | Japan           | 04-Sep-02              |            | Personal Information                        |     |
|           |                |         |               |                 |                        |            | Manager for Updating a                      |     |
|           |                |         |               |                 | 10 May 07              | 16-Nov-01  | Telecommunication<br>Subscriber Profile     |     |
| 272.MX    | 980830         | 205256  | AT&T Wireless | Mexico          | i String To            |            | Personal Information                        |     |
|           | -              |         |               |                 |                        |            | Manager for Updating a                      |     |
|           |                |         |               | *               |                        |            | Telecommunication                           |     |
| 72.010    | 40000460       | •       | AT&T Wireless | Norway          | 19-May-97              |            | Subscriber Profile                          |     |
| Z/Z.NO    | 19300400       |         |               |                 |                        |            | Mersonal Information                        |     |
|           |                |         |               | Patent          |                        | •          | Telecommunication                           |     |
|           |                |         |               | Treaty          | 19-Mav-97              |            | Subscriber Profile                          |     |
| 272.PCT   | PCT/US97/08510 |         | Al&I Wireless | ricory          |                        |            | Personal Information                        |     |
|           |                |         |               |                 |                        |            | Manager for Updating a                      |     |
|           |                |         |               |                 | 20 1/2:: 07            | 09-1110-98 | Subscriber Profile                          | _   |
| WT 272    | 86107431       | 92856   | AT&T Wireless | laiwan          | 30-May-97              | 20-102-00  | · Personal Information                      |     |
|           |                |         |               |                 |                        |            | Manager for Updating a                      |     |
|           |                |         |               |                 | 90                     | 11-Mav-99  | Telecommunication<br>Subscriber Profile     |     |
| 272.US    | 86777          | 5903845 | AT&T Wireless | United States   | 04-100-40              |            | Method for Providing                        |     |
|           |                | -       |               |                 |                        |            | Remote Emulation of the                     |     |
|           |                |         |               |                 | 90 100                 | :          | Exchange                                    |     |
| 281.BR    | 9803891-5      |         | AT&T Wireless | Brazil          | 08-00-30               |            | Method for Providing                        |     |
|           |                |         |               |                 | •                      | :          | Remote Emulation of the                     |     |
|           |                |         |               |                 |                        | 20 1100 00 | Exchange                                    |     |
| 281 CA    | 2249895        | 2249895 | AT&T Wireless | Canada          | 99-DCt-98              | 20-Mar-02  | Method for Providing                        | , - |
| 10:10:    |                |         |               |                 |                        |            | Remote Emulation of the                     |     |
| · ·       | .+             |         |               | European Patent | 0 <del>0</del> -0ct-98 |            | Functionality of a Private Exchange         |     |
| 281.EPC   | 98308224.9     |         | AT&T Wireless | COLIVERING      | 25 50 50               |            |   |     |
|           |                |         |               |                 |                        |            |   |     |

| Docket     | Application | Patent  | *               | Country         | Application | Date        | Title                      |
|------------|-------------|---------|-----------------|-----------------|-------------|-------------|----------------------------|
| Number     | Number      | Number  | Owner           | Maille          |             |             | Method for Providing       |
|            |             |         |                 |                 |             |             | Functionality of a Private |
| _          | •           |         |                 | - Colored       | 09-0-1-98   | 22-Nov-02   | Exchange                   |
| 281.MX     | 988391      | 211550  | AT&T Wireless   | MEXICO          | 23 133 23   |             | Method for Providing       |
|            |             |         |                 |                 |             |             | Remote Emulation of the    |
|            |             |         |                 |                 |             |             | Functionality of a Filvate |
|            |             |         | A TOT Missions  | Norway          | 09-Oct-98   |             | Exchange                   |
| 281.NO     | 19984742    |         | AI & I WILEIESS |                 |             |             | Method for Providing       |
|            |             |         |                 |                 |             |             | Remote Emulation of the    |
|            |             |         |                 |                 |             |             | Functionality of a Private |
|            |             |         | 22010/14/12/24  | Taiwan          | 12-Oct-98   | 26-Feb-01   | Exchange                   |
| 281.TW     | 87116913    | 121508  | Alai Wireless   |                 |             |             | Method for Providing       |
|            |             | · .     |                 |                 |             |             | Remote Emulation of the    |
|            |             |         |                 |                 |             | 00 1/200 04 | Exchange                   |
|            | 707070      | G220885 | AT&T Wireless   | · United States | 10-Oct-97   | 00-May-01   | A Method for Allowing a    |
| 281.US     | 08/848487   | 0243000 |                 |                 |             |             | Called Party to Allocate   |
|            |             |         |                 |                 |             |             | Call Payment               |
|            |             |         |                 |                 | 20.001.08   | 23-Apr-02   | Responsibility             |
| 282 C.A.   | 2252180     | 2252180 | AT&T Wireless   | Canada          | 230063      |             | A Method for Allowing a    |
| 202:202    |             |         |                 | -               |             |             | Called Party to Allocate   |
|            |             |         |                 | •.*             |             |             | Call Payment               |
|            |             |         |                 | United States   | 19-Nov-97   | 16-Apr-02   | Responsibility             |
| 282.US     | 08/974394   | 6373931 | Al&I wireless   | Compo Comico    |             |             | System for Providing       |
|            |             |         |                 |                 |             |             | Power to a Wireless        |
|            | ٠           |         |                 | Brozil          | 09-Oct-98   |             | System                     |
| 283.BR     | 9803890.7   |         | AI&I WIREIESS   | 17000           |             | -           | System for Providing       |
|            |             |         |                 |                 |             | -           | Power to a Wireless        |
|            |             |         | ATOT Wilroloce  | Canada          | 09-Oct-98   | 01-Jan-02   | System                     |
| 283.CA     | 2249911     | 2249911 | Aldi Wildies    |                 |             |             | System for Providing       |
|            |             |         |                 |                 |             | 45.Oct-02   | System                     |
| 25.000     | 098387      | 210851  | AT&T Wireless   | Mexico          | 08-00-80    | 20000       | Method and System for      |
| 283.MA     | 200000      |         |                 |                 |             |             | Providing Power to a       |
|            |             |         | 1               | 1 taited Chates | 10-Oct-97   | 03-Jul-01   | Wireless System            |
| 283.US     | 08/948777   | 6256518 | AT&T Wireless   | United States   |             |             | Method and System for      |
|            |             |         |                 |                 | •           |             | Providing Power to a       |
|            |             | •       | ATRT Wireless   | United States   | 10-Apr-01   |             | Wireless System            |
| 283.US.CP1 | 09/828859   |         | CCOLONIA INICIO |                 |             |             | Method and system to       |
| •          | *           |         |                 |                 | 46 his 04   |             | Wireless System            |
| 10 01 000  | 40/866004   |         | AT&T Wireless   | United States   | to-inc-ci   |             |                            |

|                       |   |   |   |   |   | ۾ ج   | ۾ ج   | Ę۶  | ۾ ج   | E F   | Ę F   | Ēε  | Ę E   | ğ  | <b>J</b>   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Title                 | Secure Equipment<br>Automation Using a<br>Personal Base Station | Secure Equipment<br>Automation Using a<br>Personal Base Station | Service Transfer to a<br>Wireless Telephone | Service Transfer to a<br>Wireless Telephone | Service Transfer to a<br>Wireless Telephone | System and Method for<br>Retrieving Messages From<br>a Voice Message System | System and Method for<br>Retrieving Messages From<br>a Voice Message System | System and Method for Retrieving Messages from a Voice Message System | System and Method for Retrieving Messages From a Voice Message System | System and Method for<br>Retrieving Messages From<br>a Voice Message System | System and Method for<br>Retrieving Messages From<br>a Voice Message System | System and Method for<br>Retrieving Messages From<br>a Voice Message System | System and Method for<br>Retrieving Messages From<br>a Voice Message System | Method and Apparatus for<br>Providing Partitioned<br>Telecommunication<br>Services | Method and Apparatus for<br>Providing Partitioned<br>Telecommunication<br>Services |
| ·                     | Secure Equipment Automation Using a Personal Base Stati         | Secure Equipment Automation Using a Personal Base Stati         | Service Transfer to a Wireless Telephone    | Service Transfer to a Wireless Telephone    | Service Transfer to a Wireless Telephone    | System an<br>Retrieving<br>a Voice M  | System ar<br>Retrieving<br>a Voice M  | System ar<br>Retrieving<br>a Voice M                                  | System ar<br>Retrieving<br>a Voice M                                  | System ar<br>Retrieving<br>a Voice M  | System ar<br>Retrieving<br>a Voice M  | System ar<br>Retrieving<br>a Voice M  | System ar<br>Retrieving<br>a Voice M  | Method are Providing Telecomn Services   | Method are Providing Telecomn Services   |
| Grant<br>Date         | 11-May-00   | 23-Feb-99   | 06-Mar-01                                   | 25-May-98                                   | 01-Dec-98                                   |   | 13-Feb-01   |   |   |   |   | 11-Aug-00   | 11-Jun-02   |  |  |
| Application<br>Date   | 03-Oct-97   | 96-100-60   | 07-Apr-97                                   | 05-May-97                                   | 09-May-96                                   | 17-Dec-97   | 20-Nov-97   | 20-Nov-97   | 10-Dec-97   | 16-Dec-97   | 10-Dec-97   | 11-Dec-97   | 17-Dec-96   | 26-Jun-98  | 04-Jun-98  |
| Country               |   | United States   | Canada                                      | Taiwan                                      | United States                               | Brazil  | Canada  | European Patent<br>Convention   | Japan   | ·Mexico   | Norway  | Taiwan  | United States   | Brazil   | Canada   |
| Owner                 |   |   | AT&T Wireless                               | AT&T Wireless                               | AT&T Wireless                               | AT&T Wireless   | AT&T Wireless   | AT&T.Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless  | AT&T Wirelace  |
| Patent<br>Number      | 110656  | 5875305   | 2202000                                     | 92547                                       | 5845207                                     |   | 2221660   |   |   |   |   | 114009  | 6405032   |  |  |
| Application<br>Number | 86114469  | 2088306   | 2202000                                     | 86105955                                    | 08/644027                                   | 1877348   | 2221660   | 97309357 8  | 4.330534  | 9710199   | 975816  | 86118705  | 08/766134   | 0802303  | 070000   |
| Docket                | <del> </del>  |   | 285.CA                                      | 285.TW                                      | 285.US                                      | 286.BR  | 286 CA  | 286 EPC   | OB 580  | 286 MX  | 286 NO  | WT 98C  | 286.115   | 20 70C   | V0.102   |

| Second   S |           |             |         |               |                 |   |           |                               |
|--|-----------|-------------|---------|---------------|-----------------|---|-----------|-------------------------------|
| Application   Patent   |           |             |         |               | Country         | Application                             | Grant     |                               |
| Number   Number   Convention   T-Jun-89   Number   Convention   T-Jun-89   Number   Convention   T-Jun-89   Number   Convention   T-Jun-89   Number   T-Jun-89   Num | Docket    | Application | Patent  | 3             | Name            | Date                                    | Date      | l Itie                        |
| 10-176895   AT&T Wineless   Convention   12-Jun-89   Fig.  | Nimber    | Number      | Number  | Owner         | Mallic          |   |           | Method and Apparatus for      |
| 10-176895   AT&T Wineless   European Patent   12-Jun-98   Final Patent   12-Jun-98   Final Patent   10-176895   AT&T Wineless   AT&T Wineles | 201102    |             |         |               |                 |   |           | Providing Partitioned         |
| 10-176895  |           |             |         |               | Furnnean Patent |   |           | Telecommunication             |
| 10-176895   AT&T Wireless   Japan   24-Jun-96   Proper Properties   Maxico   24-Jun-96   Properties   Maxico   24-Jun-96   Properties   Maxico   24-Jun-96   Properties   Maxico   24-Jun-97   Properties   Maxico   24-Jun-97   Properties   Maxico   24-Jun-97   Properties   Maxico   |           |             |         |               |                 | 2-Jun-98                                |           | Services                      |
| 10-176895  | 27 500    | 98304671.5  |         | AT&1 Wireless | T               |   |           | Method and Apparatus for      |
| 10-176895  | 27.5      |             |         |               |                 |   |           | Providing Partitioned         |
| 10-176995  |           |             |         |               |                 |   |           | Telecommunication             |
| 10-176895   AT&T Wireless   Japan   1-10-176895   AT&T Wireless   Japan   1-10-176895   AT&T Wireless   AT&T Wireless   Talwan   O2-Jun-96   O7-Jun-00   S5  | • .       | •           |         |               |                 | 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |           | Services                      |
| Process   Proc |           | 10.176895   |         | AT&T Wireless | 1               |   |           | Method and Apparatus for      |
| 11653   AT&T Wireless   Mexico   24-Jun-98   From the Properties   Talwan   O2-Jun-98   G7-Jun-00   S5   | B/.JF     | 20011-01    |         |               |                 |   |           | Providing Partitioned         |
| 985150   9 |           |             |         |               |                 |   |           | Telecommunication             |
| 985150   AT&T Wireless   Mexico   AT&T Wireless   Talwan   O2-Jun-97   Transmission   AT&T Wireless   Talwan   O2-Jun-97   AT&T Wireless   United States   26-Jun-97   Transmission   AT&T Wireless   United States   10-Jan-02   AT&T Wireless   AT&T Wireless   Brazil   14-Jul-97   AT&T Wireless   Canada   24-Jun-97   AT&T Wireless   Convention   15-Jul-97   AT&T Wireless   Japan   15-Jul-97   AT&T Wireless   Mexico   07-Jul-97   13-Oct-03  | •         |             |         |               |                 | 00 mil 100                              |           | Services                      |
| Principle   Prin |           | 005150      |         | AT&T Wireless | +               | 00-100-47                               |           | Method and Apparatus for      |
| B7108653   111653   A781 Wireless   Talwan   O2-Jun-96   O7-Jun-00   Track of the control of t | 287.MA    | 201000      |         |               |                 |   |           | Providing Partitioned         |
| ST   11653   AT&T Wireless   Talwan   O2-Jun-96   O7-Jun-00   St   |           |             |         |               |                 |   |           | Telecommunication             |
| 87108653   111653   AT&T Wireless   10.0000000000000000000000000000000000  |           |             |         |               | Toisean         | 02-Jun-98                               | 07-Jun-00 | Services                      |
| C1   10/041500   AT&I Wireless   United States   10-Jan-02   S   S   | WT 784    | 87108653    | 111653  | AT&T Wireless | diwaii          |   |           | Method and Apparatus for      |
| C1   10/041500   AT&T Wireless   United States   26-Jun-97   States   10/Jan-02   States   10/Jan-02   States   States |           |             |         |               |                 |   |           | Providing Parilloned          |
| 08/82804   AT&T Wireless   United States   26-Jun-97   Size   Size   26-Jun-97   Size   Size   10-Jan-02   Size   Size  |           |             |         |               | •               |   |           | Telecommunication             |
| 100405004   AT&T Wireless   10-Jan-02   S   S   S   S   S   S   S   S   S  |           |             |         | -             | 1 Inited States | 26-Jun-97                               |           | Services                      |
| C1   10/041500   AT&T Wireless   United States   10-Jan-02   S   S   S   | 287.US    | 08/882804   |         | AI&I WIREESS  | 011110          |   |           | Method and Apparatus for      |
| 10/041500 AT&T Wireless United States 10-Jan-02 S 9703967 AT&T Wireless Brazil 14-Jul-97 AT&T Wireless Canada 24-Jun-97 20-Mar-01 AT&T Wireless Convention 15-Jul-97 AT&T Wireless Japan 15-Jul-97 13-Oct-03 975088 216890 AT&T Wireless Japan 15-Jul-97 13-Oct-03   |           |             |         |               |                 |   |           | Foliation rationed            |
| 10/041500 AT&T Wireless United States 10-Jan-02 S A AT&T Wireless Brazil 14-Jul-97 AT&T Wireless Canada 24-Jun-97 20-Mar-01 AT&T Wireless Convention 15-Jul-97 AT&T Wireless Japan 15-Jul-97 AT&T Wireless Japan 15-Jul-97 13-Oct-03 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03  |           |             |         |               |                 |   |           | Services                      |
| 10/041500  10/041500  9703967  2208601  2208601  AT&T Wireless  Canada  24-Jun-97  20-Mar-01  But Wireless  Convention  15-Jul-97  AT&T Wireless  Japan  15-Jul-97  AT&T Wireless  Japan  15-Jul-97  13-Oct-03   |           | :           |         | ATET Wireless | United States   | 10-Jan-02                               |           | Sustain and Method for        |
| 9703967 AT&T Wireless Brazil 14-Jul-97 6-Mar-01 AT&T Wireless Canada 24-Jun-97 20-Mar-01 AT&T Wireless Convention 15-Jul-97 AT&T Wireless Japan 15-Jul-97 13-Oct-03 13-Oct-03  | 287.US.C1 | 10/041500   | .       | Alai Wiidida  |                 |   |           | Automatic Registration        |
| 9703967   AT&T Wireless   Brazil   14-Jul-97   Statement   14-Jul-97   Statement   AT&T Wireless   Canada   24-Jun-97   Co-Mar-01   Statement   Stat |           |             |         |               | :               |   |           | Notification for Over-the-Air |
| 9703967   AT&T Wireless   Brazil   14-Jul-97   S   |           | -           |         |               | :               |   |           | Activation                    |
| 9703967  2208601  2208601  AT&T Wireless  Canada  24-Jun-97  European Patent  European Patent  15-Jul-97  AT&T Wireless  Japan  15-Jul-97  AT&T Wireless  Japan  15-Jul-97  AT&T Wireless  Japan  15-Jul-97  13-Oct-03   |           |             |         | AT&T Wireless | Brazil          | 14-Jul-97                               |           | System and Method for         |
| C         97112096.9         AT&T Wireless         Canada         24-Jun-97         20-Mar-01         Proposition           C         97112096.9         AT&T Wireless         Convention         15-Jul-97         Proposition         Prop   | 288.BR    | 9703967     |         | 1510          |                 |   |           | Automatic Registration        |
| C         97112096.9         AT&T Wireless         Canada         24-Jun-97         20-Mar-01           C         97112096.9         AT&T Wireless         Convention         15-Jul-97         P           188842/1997         AT&T Wireless         Japan         15-Jul-97         13-Oct-03           975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03   |           |             |         |               |                 |   |           | Notification for Over-the-Air |
| 2208601         AT&T Wireless         Canada         ATAUNOR           C         97112096.9         AT&T Wireless         Convention         15-Jul-97           188842/1997         AT&T Wireless         Japan         15-Jul-97           975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03  |           |             |         |               | : (             |   | 20-Mar-01 | Activation                    |
| European Patent 15-Jul-97 Convention 15-Jul-97 188842/1997 AT&T Wireless Japan 15-Jul-97 186842/1997 AT&T Wireless Japan 15-Jul-97 13-Oct-03   |           |             | 2208601 | AT&T Wireless | Canada          | 10-100-47                               |           | System and Method for         |
| 97112096.9 AT&T Wireless Convention 15-Jul-97 188842/1997 AT&T Wireless Japan 15-Jul-97 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   | 288.CA    | 770007      |         |               |                 |   |           | Automatic Registration        |
| 97112096.9 AT&T Wireless Convention 15-Jul-97 188842/1997 AT&T Wireless Japan 15-Jul-97 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   |           |             |         |               | European Patent |   | _         | Notification for Over-me-An   |
| 97112096.9 AT&T Wireless Convenion 15-Jul-97 188842/1997 AT&T Wireless Japan 15-Jul-97 13-Oct-03   |           |             |         |               | Compation       | 15-Jul-97                               |           | Activation                    |
| 188842/1997 AT&T Wireless Japan 15-Jul-97 188842/1997 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   | 700       | 07112096 9  |         | AT&T Wireless | Convenion       |   |           | System and Method for         |
| 188842/1997 AT&T Wireless Japan 15-Jul-97 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   | 288.EFC   | 311150000   |         |               |                 |   |           | Automatic Registration        |
| 188842/1997 AT&T Wireless Japan 15-Jul-97 13-Oct-03 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   |           |             |         |               |                 |   |           | Notification for Over-une-nu  |
| 188842/1997 A1&1 Wireless Cop.ci. 13-Oct-03 A1&T Wireless Mexico 07-Jul-97 13-Oct-03   | 0         |             |         |               | . usus          | 15-Jul-97                               |           | Activation                    |
| 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   | 288.JP    | 188842/1997 |         | AT&T Wireless | 2000            |   |           | System and Method 101         |
| 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03   |           |             |         |               |                 |   |           | Notification for Over-the-Air |
| 975088 216890 A1&I Witeless I MONICOLO   |           |             |         |               | Maxim           | 76-701-97                               | 13-Oct-03 | Activation                    |
|  |           |             | 216890  | AT&T Wireless | INIGNIC         |   |           | •                             |

| Application         Patent Number         Country Application Of States Number         Country Application Of States Number         Grant Of States Number         Country Application Of States Numbers         Country Number Numbers         Country Number Numbers         Country Number Numbers         Country Number Numbers         AT&T Wireless         Taken Number Numbers         Taken Number Numbers         Taken Number Numbers         Taken Number Number Number Numbers         Taken Number Numb   |              |                  |         |               |                 |                      |           | .,   |
|--|--------------|------------------|---------|---------------|-----------------|----------------------|-----------|--|
| 19973157   AT&T Wireless   Norway   06-Jul-97   11-Dec-96  | Docket       | Application      | Patent  | Owner         | Country         | Application:<br>Date | Grant     | Title  |
| 19973157   AT&T Wireless   Norway   OB-Jul-97   11-Dec-98  | Number       | Name of the last | BOILD   |               | ,               |                      |           | System and Method for Automatic Registration Notification for Over-the-Air |
| B6109676   98465   AT&T Wireless   Talwan   09-Jul-97   11-Dec-98   13-Feb-01   10-00702163   6292421   AT&T Wireless   United States   15-Jul-96   13-Feb-01   10-00702163   6292421   AT&T Wireless   United States   29-Jun-01   28-Aug-01   10-002492   AT&T Wireless   United States   19-Mar-04   19-Sep-97   03-Jul-01   10-002492   AT&T Wireless   Canada   19-Sep-97   03-Jul-01   10-002492   AT&T Wireless   Canada   19-Sep-97   03-Jul-01   10-002492   AT&T Wireless   Convention   19-Sep-97   Canada   19-Sep-97   Canada   19-Sep-97   Canada   19-Sep-97   Canada   C | . 014 880    | 10073157         | ,       | AT&T Wireless |                 | 08-Jul-97            |           | Activation   |
| B6109676   99465   AT&T Wireless   Taiwan   09-Jul-97   11-Dec-98   15-Jul-96   13-Feb-01   10-B0702163   6282421   AT&T Wireless   United States   15-Jul-96   13-Feb-01   10-B0702492   AT&T Wireless   United States   29-Jun-01   28-Aug-01   10-B02492   AT&T Wireless   United States   19-Jun-01   19-Sep-97   03-Jul-01   10-B02492   AT&T Wireless   Brazil   03-Oct-97   03-Jul-01   CC   97117320.8   838340   AT&T Wireless   Convention   19-Sep-97   COnvention   19-Jul-98   COnvention   COnvention   COnvention   COnvention   COnvention   COnvention   COnvention   CO | . ON.007     | 1995 919         |         |               |                 |                      |           | System and Method for<br>Automatic Registration                            |
| C1   09/02/163   5282421   AT&T Wireless   United States   15-Jul-96   13-Feb-01   |              |                  |         | AT&T Wireless | Taiwan          | 76-Jul-60            | 11-Dec-98 | Notification for Over-the-Air Activation                                   |
| C1(1)   09/896481   6282421   AT&T Wireless   United States   15-Jul-96   13-Feb-01  | 700.170      | 0/020/00         | 2010    |               |                 |                      |           | System and Method for Automatic Registration                               |
| C1(1)   09/896481   6282421   AT&T Wireless   United States   30-Oct-00   28-Aug-01  |              |                  | (       |               | octory posteri  | 90                   | 13.Feb.01 | Notification for Over-the-Air<br>Activation                                |
| 09/102163         6282421         AT&T Wireless         United States         30-Oct-00         28-Aug-01           10/602492         AT&T Wireless         United States         29-Jun-01         28-Aug-01           9706687         AT&T Wireless         United States         16-Mar-04           2215821         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         835340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           AT&T Wireless         Convention         07-Oct-97         23-Jun-04  | 288.US       | 08/679890        | 6188899 | Al&I Wireless | United States   | 02-101-20            | 10.00     | System and Method for  |
| 09/702163         6282421         AT&T Wireless         United States         30-Oct-00         28-Aug-01           09/896481         AT&T Wireless         United States         29-Unn-01         28-Aug-01           10/802492         AT&T Wireless         United States         16-Mar-04         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97         03-Jul-01           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         838340         AT&T Wireless         European Patent         07-Oct-97         23-Jun-04           ATXT Wireless         Convention         16-Jan-98         Convention         16-Jan-98  |              |                  | - 4-    |               |                 | -                    | ,         | Automatic Registration Notification for Over-the-Air                       |
| 09/896481         AT&T Wireless         United States         29-Jun-01           10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           AT&T Wireless         Convention         16-Jan-98         23-Jun-04         23-Jun-04  | 288 US C1    | 09/702163        | 6282421 | AT&T Wireless | United States   | 30-Oct-00            | 28-Aug-01 | Activation   |
| 09/896481         AT&T Wireless         United States         29-Jun-01           10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           AT&T Wireless         Convention         16-Jan-98         Convention         16-Jan-98   |              |                  |         |               |                 |                      |           | System and Method for Automatic Registration                               |
| 10/802492   AT&T Wireless   United States   29-Jun-01  |              |                  |         |               |                 |                      |           | Notification for Over-the-Air  |
| 10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         838340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           ATAT Wireless         Convention         16-Jan-98         23-Jun-04  | 288 US C1/1) | 09/896481        |         | AT&T Wireless | United States   | 29-Jun-01            |           | Activation   |
| 10/802492   AT&T Wireless   United States   16-Mar-04     9708687   AT&T Wireless   Brazil   03-Oct-97     2215821   AT&T Wireless   Canada   19-Sep-97   03-Jul-01     97117320.8   838340   AT&T Wireless   Convention   07-Oct-97   23-Jun-04     AT&T Wireless   Convention   16-Jan-98   Convention   16-Jan-98   |              |                  |         |               |                 |                      |           | System and Method for Automatic Registration                               |
| 10/802492  |              |                  |         |               | United States   | 16-Mar-04            |           | Activation for Over-tne-Air  |
| 9705687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           307377.6         AT&T Wireless         Convention         16-Jan-98   | 288.US.C1(2) | 10/802492        |         | Ala Wireless  | OTHIGO OTAGO    |                      |           | A Method and Apparatus   |
| 9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           AT&T Wireless         Convention         16-Jan-98  |              |                  | •       |               |                 | _                    |           | for Over-the-Air   |
| 9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           302372.6         AT&T Wireless         Convention         16-Jan-98   |              |                  |         |               |                 |                      |           | Programming of   |
| 9706687 9706687 9706687 9706687 9716821 9716821 97167320.8 9767 9717320.8 976687 9767 9717320.8 97687 9767 97687 97687 97687 97687 97687 97687 97687 97687 97687 97687 97687 97687 97687 97688   |              |                  |         |               |                 | 70 000               |           | Services   |
| 2215821 2215821 AT&T Wireless Canada 19-Sep-97 03-Jul-01 European Patent Convention 07-Oct-97 23-Jun-04 European Patent AT&T Wireless Convention 16-Jan-98 Convention 16-Jan-98  | 289.BR       | 9706687          |         | AT&T Wireless | DIAZII          | 03-001-31            |           | A Method and Apparatus   |
| 2215821 2215821 AT&T Wireless Canada 19-Sep-97 03-Jul-01 European Patent Convention 07-Oct-97 23-Jun-04 European Patent European Patent AT&T Wireless Convention 16-Jan-98 AT&T Wireless Convention 16-Jan-98  |              |                  |         | ,             |                 |                      |           | for Over-the-Air   |
| 2215821 2215821 AT&T Wireless Canada 19-Sep-97 03-Jul-01 European Patent O7-Oct-97 23-Jun-04 European Patent Convention 16-Jan-98 AT&T Wireless Convention 16-Jan-98   |              |                  |         |               |                 |                      |           | Telecommunication  |
| ## European Patent   Convention   O7-Oct-97   23-Jun-04  | ,            |                  | 700     | AT&T Mireless | Canada          | 19-Sep-97            | 03-Jul-01 | Services   |
| 97117320.8 836340 AT&T Wireless Convention 07-Oct-97 23-Jun-04.  European Patent 23-Jun-04.  European Patent Convention 16-Jan-98  | 289.CA       | 2215821          | 1790177 | Alar Wildias  |                 |                      |           | A Method and Apparatus   |
| 97117320.8 836340 AT&T Wireless Convention 07-Oct-97 23-Jun-04 European Patent European Patent AT&T Wireless Convention 16-Jan-98  |              | •                | •       | -<br>-        |                 |                      |           | Programming of   |
| 97117320.8 836340 AT&T Wireless Convention 07-Oct-97 23-Jun-04  European Patent Convention 16-Jan-98   |              |                  |         |               | European Patent |                      |           | Telecommunication  |
| European Patent AT&T Wireless Convention 16-Jan-98   | 289 FPC      | 97117320.8       | 836340  | AT&T Wireless | Convention      | 07-Oct-97            | 23-Jun-04 | Services   |
| European Patent Convention 16-Jan-98   |              |                  |         |               |                 |                      |           | Method and Apparatus for Updating Service                                  |
| 1 3023872 6 AT&T Wireless   Convention   16-Jan-98   |              |                  |         |               | European Patent |                      |           | Information Stored in a  |
| 3023012.0  | 289.EPC.D1   | 3023872.6        |         | AT&T Wireless | Convention      | 16-Jan-98            |           | MODILE SIGNA   |

|              |               |         |               |               |             | -         |   |
|--------------|---------------|---------|---------------|---------------|-------------|-----------|---|
| Dockot       | Application   | Patent  |               | Country       | Application | Grant     | Title   |
| Number       | Number        | Number  | Owner         | Мате          | 250         |           | Mobile Communication  |
|              |               |         |               | atent         |             |           | System and Melinor of Receiving Intelligent Roaming Information               |
| PAG EPC. D2  | 3026871.8     |         | AT&T Wireless | Convention    | 07-001-97   |           | A Method and Apparatus  |
|              |               | ·<br>·  |               |               |             |           | Programming of Telecommunication  |
| ·            |               |         | AT&T Wireless | Japan         | 08-Oct-97   |           | Services<br>A Method and Apparatus  |
| 289.JP       | 275398/199/   |         |               |               |             |           | for Over-the-Air<br>Programming of<br>Telecommunication                       |
|              | 0.000         | 200518  | AT&T Wireless | Mexico        | 06-Oct-97   | 07-Aug-02 | Services<br>A Method and Apparatus  |
| 289.MX       | 9/10/16       |         |               |               | ,           |           | for Over-the-Air<br>Programming of<br>Telecommunication                       |
|              |               | ·       | AT&T Wireless | Norway        | 30-Sep-97   |           | Services<br>A Method and Apparatus  |
| 289.NO       | 199/451/      |         |               |               |             |           | for Over-the-Air<br>Programming of  |
| ;            | 700           | 110299  | AT&T Wireless | Taiwan        | 06-Oct-97   | 02-May-00 | Services A Method and Apparatus   |
| 289.TW       | 00114303      |         |               | ÷             |             |           | for Over-the-Air<br>Programming of  |
| St 185       | 2001378       | 6122503 | AT&T Wireless | United States | 08-Oct-96   | 19-Sep-00 | Services A Method and Apparatus   |
|              | 317000        | 6456843 | AT&T Wireless | United States | 17-Dec-98   | 24-Sep-02 | Programming of Telecommunication Services A Method and Apparatus              |
| 289.US.C1    | 21 + 21 7 150 |         | *             | Spates        | 08-Aug-02   |           | for Over-the-Air<br>Programming of<br>Telecommunidation<br>Services           |
| 289.US.C1(1) | 10/214315     |         | AT&T Wireless |               |             |           | Method and Apparatus for Testing Cellular Services in a First Location From a |
|              |               |         | ATRT Wireless | Brazil        | 17-Oct-97   |           | Second Location Remote<br>From the First Location                             |
| 296.BR       | 1410934       |         | Alga Wildings |               |             |           |   |
|              | •             |         |               |               |             |           |   |

|                       |               |                 |                 |                  |               | _  |
|-----------------------|---------------|-----------------|-----------------|------------------|---------------|--|
| Application<br>Number | Patent Number | Owner           | Country         | Application Date | Grant<br>Date | Title  |
|                       |               |                 |                 |                  |               | Method and Apparatus for<br>Testing Cellular Services in |
| ٠                     |               |                 |                 |                  | ٠.            | a First Location From a                                  |
|                       | -             |                 |                 |                  |               | Second Location Remote                                   |
| 2218667               | 2218667       | AT&T Wireless   | Canada          | 20-Oct-97        | 11-Sep-01     | From the First Location                                  |
| 77,0001               | 1000177       |                 |                 |                  |               | Method and Apparatus for                                 |
|                       |               |                 |                 |                  |               | Testing Cellular Services in                             |
|                       |               |                 |                 |                  |               | a First Location From a                                  |
|                       |               |                 | European Patent |                  |               | Second Location Remote                                   |
| 97117941.1            |               | AT&T Wireless   | Convention      | 16-Oct-97        |               | From the First Location                                  |
|                       |               |                 |                 |                  |               | Method and Apparatus for                                 |
|                       |               | •               |                 |                  |               | Testing Cellular Services in                             |
| ٠                     |               |                 |                 | •                |               | a First Location From a                                  |
|                       |               |                 |                 |                  | •             | Second Location Remote                                   |
| 9-286313              | ń             | AT&T Wireless   | Japan           | 20-Oct-97        |               | From the First Location                                  |
|                       |               |                 |                 |                  |               | Method and Apparatus for                                 |
|                       |               |                 | •               |                  |               | Testing Cellular Services in                             |
|                       |               |                 |                 |                  | •             | a First Location From a                                  |
|                       |               |                 |                 |                  |               | Second Location Remote                                   |
| 978010                | 212232        | AT&T Wireless   | Mexico          | 17-Oct-97        | 18-Dec-02     | From the First Location                                  |
| 2000                  | 7077.7        |                 |                 |                  |               | Method and Apparatus for                                 |
|                       |               |                 |                 |                  |               | Testing Cellular Services in                             |
| •                     | ·             | •               |                 |                  |               | a First Location From a                                  |
|                       |               |                 |                 |                  |               | Second Location Remote                                   |
| 10074723              |               | AT&T Wireless   | Norway          | 13-Oct-97        |               | From the First Location                                  |
| 13314150              |               |                 |                 |                  |               | Method and Apparatus for                                 |
|                       |               |                 |                 |                  |               | Testing Cellular Services in                             |
| •                     |               |                 |                 |                  |               | a First Location From a                                  |
|                       |               |                 |                 | -                |               | Second Location Remote                                   |
| 06446440              | 103067        | ATRT Wireless   | Taiwan          | 15-Oct-97        | 10-Sep-99     | From the First Location                                  |
| 74101100              | 10000         |                 |                 |                  |               | Method and Apparatus for                                 |
| · •                   |               |                 |                 |                  |               | Testing Cellular Services in                             |
| •                     |               |                 |                 |                  |               | a First Location From a                                  |
|                       |               |                 |                 |                  |               | Second Location Remote                                   |
| 20272707              | 5875308       | AT&T Wireless   | United States   | 21-Oct-96        | 23-Feb-99     | From the First Location                                  |
| 10/146/100            | 0000          |                 |                 |                  |               |  |
| - Tr.                 |               |                 |                 |                  | ·<br>·        | Improved Generation of                                   |
| 64750074000           |               | AT&T Wireless   | lapan.          | 29-Sep-97        |               | Encryption Key   |
| 317300/1330           |               |                 |                 |                  |               | Improved Generation of                                   |
| 86114466              | 103186        | AT&T Wireless   | Taiwan          | 03-Oct-97        | 13-Sep-99     | Encryption Key   |
|                       |               |                 |                 | 90 1-0 00        | 27, 1,1,00    | Encountry Key  |
| 08/731105             | 5930362       | AT&T Wireless   | United States   | 08-00-80         | 21-Jul-33     | Con local tree   |
| -                     |               | A TOT MANAGED A | Totalon         | 03-Oct-97        | 1 23-Apr-02   | Mobile Network   |

|           |             |             |                 |                 | Application | Grant                                   |   |
|-----------|-------------|-------------|-----------------|-----------------|-------------|---|---|
| Docket    | Application | Patent      |                 | Name            | Date        | Date                                    | Title   |
| Number    | Number      | Number      | Owner           | Mallic          |             |   | Geographic Address Translation                  |
|           |             |             |                 |                 |             |   | Mobile Network                                  |
|           |             |             |                 |                 |             | 24 819.00                               | Geographic Address<br>Translation               |
|           |             | CO 4 CE 4 E | . AT&T Wireless | United States   | 08-Oct-36   | SS-ROV-16                               | Registration of Mobile                          |
| 298.US    | 1801591     | C10046C     |                 |                 |             |   | Packet Data Terminals                           |
|           |             | 2071733     | AT&T Wireless   | Canada          | 06-May-97   | 23-Sep-03                               | After Disaster :<br>Registration of Mobile      |
| 299.CA    | 2257423     | 6751473     |                 |                 |             | ٠.                                      | Packet Data Terminals                           |
|           |             | •           | AT&T Wireless   | Canada          | 06-May-97   |   | After Disaster Registration of Mobile           |
| 299.CA.D1 | 2404922     |             |                 | European Patent |             |   | Packet Data Terminals After Disaster            |
| 299.EPC   | 97922676.8  |             | AT&T Wireless   | Convention      | 06-May-97   |   | Registration of Mobile                          |
|           |             |             |                 | lanan           | 06-May-97   |   | After Olsaster                                  |
| 299.JP    | 501587/1998 |             | Alai Wildidaa   |                 |             | ·<br>·                                  | Packet Data Terminals                           |
|           |             | 204007      | AT&T Wireless   | Mexico          | 06-May-97   | 06-May-97                               | Registration of Mobile                          |
| 299.MX    | 9810332     |             |                 |                 |             | 46.010.00                               | Packet Data Terminals After Disaster            |
| WT 996    | 86106439    | 102438      | AT&T Wireless   | Talwan          | 14-May-97   | and | Registration of Mobile                          |
|           |             |             |                 | 1 Inited States | 10-Jun-96   | 05-Dec-00                               | After Disaster                                  |
| 299.US    | 1992978     | 6157633     | AT&T Wireless   | 2000            | ,           |   | Packet Data Terminals                           |
|           |             |             | - ATAT Wireless | United States   | 09-Apr-99   | 03-Aug-04                               | After Disaster Method and Apparatus for         |
| 299.US.D1 | 09/289362   | 6771634     | 2000            |                 |             |   | Dynamic Negotlation of                          |
| 88 000    | 9800328-3   |             | AT&T Wireless   | Brazil          | 15-Jan-98   |   | Method and Apparatus for                        |
|           |             | 2227086     | AT&T Wireless   | Canada          | 15-Jan-98   | 19-Mar-02                               | Protocols Method and Apparatus for              |
| 300.CA    | 2227086     | 0001777     |                 |                 | 3           |   | Dynamic Negotlation of                          |
| 300.MX    | 980550      | 221663      | AT&T Wireless   | Mexico          | 19-Jan-98   | \$0-I00-67                              | Method and Apparatus for Dynamic Negotlation of |
|           | 200000      | NI-134707   | AT&T Wireless   | Taiwan          | 21-Jan-98   | 17-0ct-01                               | Protocols<br>Dynamic Protocol                   |
| 300.TW    | 87 1007 32  |             | ATRT Wireless   | United States   | 21-Jan-97   | 26-Sep-00                               | Negotiation System                              |
| 300.08    | -290885     | 7716719     |                 |                 |             | •                                       |   |

| Patent<br>Number |  | Owner         | Country<br>Name               | Application<br>Date | Grant<br>Date | Title  |
|------------------|--|---------------|-------------------------------|---------------------|---------------|--|
| 6445716          |  | AT&T Wireless | United States                 | 08-Aug-00           | 03-Sep-02     | Method and Apparatus for<br>Dynamic Negotiation of<br>Protocols                                  |
|                  |  | AT&T Wireless | United States                 | 18-Jul-02           |               | Method and Apparatus for<br>Dynamic Negotiation of<br>Protocols                                  |
|                  | <del>                                     </del> | AT&T Wireless | Brazil                        | 24-Oct-97           | ·             | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
| 2218211          | <del></del>                                      | AT&T Wireless | Canada                        | 14-Oct-97           | 06-Feb-01     | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
|                  |  | AT&T Wireless | European Patent<br>Convention | 24-Oct-97           |               | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
| -)-              |  | AT&T Wireless | Japan                         | 23-Oct-97           |               | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
| 206521           | <del></del>                                      | AT&T Wireless | Mexico                        | 20-Oct-97           | 08-Feb-02     | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
|                  |  | AT&T Wireless | Norway                        | 15-Oct-97           |               | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
| 108524           |  | AT&T Wireless | Taiwan                        | 20-Oct-97           | 09-Mar-00     | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
| 5940740          |  | AT&T Wireless | United States                 | 25-Oct-96           | 17-Aug-99     | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
| 6219542          | 1  | AT&T Wireless | United States                 | 18-Dec-98           | 17-Apr-01     | A Method and Apparatus<br>for Message Transmission<br>Verification                               |
|                  |  | AT&T Wireless | United States                 | 24-Mar-00           |               | Method and Apparatus for<br>Message Transmission<br>Verification                                 |
|                  |  | AT&T Wireless | Brazil                        | 24-Jun-97           |               | Method for Categorization of Multiple Providers in a Wireless Communications Service Environment |
|                  | <del></del>                                      |               |                               |                     |               | Method for Categorization of Multiple Providers in a Wireless Communications                     |
| 2259238          | _  | AT&T Wireless | Canada                        | 24-Jun-97           | 25-Mar-03     | Service Environment  |

| ket         Application         Patent         Owner         Country           ber         Number         Number         Number         Name           ber         Number         AT&T Wireless         Convention           g0222         G04270/1998         AT&T Wireless         Japan         2           g0522         g7738         AT&T Wireless         Talvan           g1         106638         6195532         AT&T Wireless         United States           C1         106638         6377787         AT&T Wireless         United States           C2         10/099992         AT&T Wireless         United States           C2         10/099992         AT&T Wireless         United States           C2         10/099992         AT&T Wireless         Canada           A         229432         AT&T Wireless         Canada           A         229432         AT&T Wireless         Canada           AD         244185         AT&T Wireless         Convention           C2         991492         AT&T Wireless         Convention  |                |             |          |   |                 |             |           | -  |
|--|----------------|-------------|----------|---|-----------------|-------------|-----------|--|
| Number   Number   Number   Owner   Name   Outer   Owner   Number   Owner   Number   Owner    | Dockot         | Application | Patent   |   | Country         | Application | Grant     | Title  |
| Sca2701986   | DOCAGE         | Mirmhor     | Number   | Owner                                   | Name            | Date        | Carc      | Method for Categorization                            |
| State   Stat | Number         | Mulipei     |          |   |                 |             | •         | of Multiple Providers in a                           |
| S042701998   |                |             | <i>:</i> |   | European Patent |             |           | Wireless Communications                              |
| 91932289.8   AT&T Wireless   Japan   24-Jun-97   N   |                |             |          | AT&T Wireless                           | Convention      | 24-Jun-97   |           | Mathod for Calendrization                            |
| S04270/1998  | 302.EPC        | 97932289.8  |          | 2000                                    |                 |             |           | Melliod for Caregorization                           |
| SO4270/1998  |                |             |          |   |                 | , .         |           | Wireless Communications                              |
| 504270/1998   AT&T Wireless   Japan   At4-Jun-97   We vice   24-Jun-97   We vice   24-Jun-97   We vice   We vice   24-Jun-97   We vice   We vice | •              |             |          | :                                       |                 | 70 mg 07    |           | Service Environment                                  |
| Secondary   Seco | םו כטכ         | 504270/1998 |          | AT&T Wireless                           | Japan           | Z4-7011-37  |           | Method for Categorization                            |
| 990222   97738   AT&T Wireless   Mexico   24-Jun-97   V   V   V   V   V   V   V   V   V  | 302.37         |             |          |   |                 |             |           | of Multiple Providers in a                           |
| 990222   AT&T Wireless   Mexico   24-Jun-97   11-Mar-99   National   | _ <del>-</del> | :           |          |   |                 |             |           | Wireless Communications                              |
| 980222   97738   AT&T Wireless   Talwan   24-Jun-97   11-Mar-99   V V V V V V V V V V V V V V V V V V  |                |             |          | AT&T Wireless                           | Mexico          | 24-Jun-97   |           | Mathod for Categorization                            |
| R6108622   97738   AT&T Wireless   Taiwan   24-Jun-97   11-Mar-89   National   | 302.MX         | 990222      |          | 5                                       |                 |             |           | of Multiple Providers in a                           |
| C1         1066388         G377787         AT&T Wireless         United States         28-Jun-9F         17-Feb-01           C2         10/099992         G377787         AT&T Wireless         United States         14-Jun-99         27-Feb-01           C3         10/099992         AT&T Wireless         United States         19-Mar-02         27-Feb-01           AA         2294432         AT&T Wireless         United States         27-Sep-04         30-Mar-04           AD         29929031.7         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           PC         989229031.7         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           X         2991892         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           PC         989229031.7         AT&T Wireless         Mexico         12-Jun-98         12-Jun-98  |                |             |          |   |                 | •           |           | Wireless Communications                              |
| B6108822   97738   AT&T Wireless   United States   28-Jun-96   27-Feb-01   2 |                |             |          | 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - | Taiwan          | 24-Jun-97   | 11-Mar-99 | Service Environment                                  |
| C1         106538B         6195532         AT&T Wireless         United States         14-Jun-96         27-Feb-01           C2         1009992         6377787         AT&T Wireless         United States         14-Jun-99         23-Apr-02           C3         malled         AT&T Wireless         United States         19-Mar-02         23-Apr-02           C3         malled         AT&T Wireless         United States         17-Jun-9B         30-Mar-04           A         2294432         AT&T Wireless         Canada         12-Jun-9B         30-Mar-04           A         AT&T Wireless         Canada         12-Jun-9B         30-Mar-04           A         AT&T Wireless         Convention         12-Jun-9B           A         AT&T Wireless         Convention         12-Jun-9B  | 302.TW         | 86108822    | 97738    | Algi Wireless                           |                 |             |           | Method for Categorization of Multiple Providers in a |
| C1         1066388         6195532         AT&T Wireless         United States         14-Jun-99         27-Feb-01           C2         10/099992         AT&T Wireless         United States         19-Mar-02         23-Apr-02           C2         10/099992         AT&T Wireless         United States         19-Mar-02         23-Apr-02           C3         malled         AT&T Wireless         United States         27-Sep-04         30-Mar-04           A.D1         229432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           A.D1         244185         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           AT         B9929031.7         AT&T Wireless         Convention         12-Jun-98         AT&Lun-98           X         9911892         AT&T Wireless         Mexico         12-Jun-98         12-Jun-98   |                | ···         |          |   |                 |             |           | Wireless Communications                              |
| C1   1066388   6195532   AT&T Wireless   United States   14-Jun-99   23-Apr-02   | •              |             |          |   | Octob Chatter   | 28. lin-96  | 27-Feb-01 | Service Environment                                  |
| C1         1066388         6377787         AT&T Wireless         United States         14-Jun-99         23-Apr-02           C2         10/099992         AT&T Wireless         United States         19-Mar-02         23-Apr-02           C3         malled         AT&T Wireless         United States         27-Sep-04         30-Mar-04           A         2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           A,D1         2444185         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           C         989259031.7         AT&T Wireless         Convention         12-Jun-98         AT&T Wireless           X         9911892         AT&T Wireless         Mexico         12-Jun-98         12-Jun-98   | SIT CUE        | 08/672908   | 6195532  | AT&T Wireless                           | United States   | 20-100-02   |           | Method for Categorization                            |
| 106638B         6377787         AT&T Wireless         United States         14-Jun-99         23-Apr-02           10/099992         AT&T Wireless         United States         19-Mar-02         23-Apr-02           10/1099992         AT&T Wireless         United States         27-Sep-04         30-Mar-04           1         2294432         AT&T Wireless         Canada         12-Jun-9B         30-Mar-04           1         2444185         AT&T Wireless         Canada         12-Jun-9B         30-Mar-04           9911892         AT&T Wireless         Mexico         12-Jun-9B         12-Jun-9B  |                |             |          |   |                 | . •         |           | of Multiple Providers in a                           |
| 1066388         6377787         AT&T Wireless         United States         14-Jun-99         23-Apr-02           10/099992         AT&T Wireless         United States         19-Mar-02         23-Apr-02           10/099992         AT&T Wireless         United States         27-Sep-04         30-Mar-02           1         2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           1         2444185         AT&T Wireless         Convention         12-Jun-98         30-Mar-04           9911892         AT&T Wireless         Mexico         12-Jun-98         12-Jun-98   |                |             |          |   |                 |             |           | Wireless Communications                              |
| 106638B         6377787         A 1 81 Wireless         United States         19-Mar-02           10/09992         AT&T Wireless         United States         19-Mar-02           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           1         2444185         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           98929031.7         AT&T Wireless         Convention         12-Jun-98         12-Jun-98           9911892         AT&T Wireless         Mexico         12-Jun-98  |                |             |          | ATOTIAlizabase                          | 1 Inited States | 14-Jun-99   | 23-Apr-02 | Service Environment                                  |
| 10/099992         AT&T Wireless         United States         19-Mar-02           malled         AT&T Wireless         United States         27-Sep-04           2294432         AT&T Wireless         Canada         12-Jun-98           2444185         AT&T Wireless         Canada         12-Jun-98           98929031.7         AT&T Wireless         Convention         12-Jun-98           9911892         AT&T Wireless         Mexico         12-Jun-98  | 302.US.C1      | 1066388     | 6377787  | Alai Wileiess                           |                 |             |           | Method for Categorization                            |
| 10/099992         AT&T Wireless         United States         19-Mar-02           malled         AT&T Wireless         United States         27-Sep-04           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           1         2444185         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           9991892         AT&T Wireless         Convention         12-Jun-98         12-Jun-98           Mexico         12-Jun-98         Mexico         12-Jun-98  |                |             |          |   |                 |             |           | of Multiple Providers III a                          |
| 10/099992         AT&T Wireless         United States         19-Mar-02           malled         AT&T Wireless         United States         27-Sep-04           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           2444185         AT&T Wireless         Convention         12-Jun-98         12-Jun-98           9911892         AT&T Wireless         Mexico         12-Jun-98         12-Jun-98  |                |             |          |   |                 |             |           | Condo Entroment                                      |
| 10/0999922   AT&T Wireless   United States   27-Sep-04     2294432   AT&T Wireless   Canada   12-Jun-98   30-Mar-04     2444185   AT&T Wireless   Convention   12-Jun-98     98929031.7   AT&T Wireless   Convention   12-Jun-98     9911892   AT&T Wireless   Mexico   12-Jun-98  |                |             |          | AT&T Wireless                           | United States   | 19-Mar-02   |           | Mothod for Categorization                            |
| C3         malled         AT&T Wireless         United States         27-Sep-04           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           D1         2444185         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           C         98929031.7         AT&T Wireless         Convention         12-Jun-98         AT&Lun-98           AT&T Wireless         Mexico         12-Jun-98         AT&Lun-98  | 302.US.C2      | 10/099992   |          |   |                 |             |           | of Multiple Providers in a                           |
| C3         mailed         AT&T Wireless         United States         27-Sep-04           2294432         2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           D1         2444185         AT&T Wireless         Canada         12-Jun-98         AT&T Wireless         Convention         12-Jun-98           C         98929031.7         AT&T Wireless         Convention         12-Jun-98         12-Jun-98  |                |             |          |   |                 | •           |           | Wireless Communications                              |
| C3         malled         AT&T Wireless         Onlited States         27-30p-2           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           D1         2444185         AT&T Wireless         Canada         12-Jun-98           C         98929031.7         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98  |                |             | •        |   | Soft Chatter    | 27.Sen-04   |           | Service Environment                                  |
| D1         2444185         AT&T Wireless         Canada         12-Jun-98         30-Mar-04         1           C         98925031.7         AT&T Wireless         Convention         12-Jun-98         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98         12-Jun-98         12-Jun-98  | 302118.03      | mailed      |          | AT&T Wireless                           | United States   | 2,000       |           | Method of Intelligent                                |
| Consist of the construction         AT&T Wireless         Canada         12-Jun-98         30-Mar-u4           Consequence         AT&T Wireless         Canada         12-Jun-98         30-Mar-u4           Consequence         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98  |                |             |          |   |                 | ,           | 70        | Roaming Using Network                                |
| Consists         AT&T Wireless         Canada         12-Jun-98           C         98929031.7         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98   |                |             | 7777     | AT&T Wireless                           | Canada          | 12-Jun-98   | 30-Mar-04 | Mothed of Intelligent                                |
| 2444185         AT&T Wireless         Canada         12-Jun-98           98929031.7         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98  | 303.CA         | 2294432     | 2294432  | 5                                       |                 |             |           | Doaming Reing Network                                |
| 21         2444185         AT&T Wireless         Canada         12-Jun-96           98929031.7         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98   |                |             |          |   |                 |             |           | Information  |
| 9911892 AT&T Wireless Convention 12-Jun-98 AT&T Wireless Mexico 12-Jun-98  | 202 CA D4      | 2444185     |          | AT&T Wireless                           | Canada          | 12-Jun-98   |           | Method of Intelligent                                |
| 98929031.7 AT&T Wireless Convention 12-Jun-98 AT&T Wireless Mexico 12-Jun-98   | 203.00         | 2011        |          |   | Furonean Patent |             |           | Roaming Using Network                                |
| 98929031.7 AT&T Wireless Mexico 12-Jun-98  | •              |             | (2)      | ATRT Wireless                           | Convention      |             |           | Information  |
| 9911892 AT&T Wireless Mexico 12-Jun-98   | 303.EPC        | 98929031.7  |          | See All Gless                           |                 |             |           | Reaming Using Network                                |
| 9911892 MICRIESS MICRIESS  |                |             |          |   | Movico          | 12-Jun-98   |           | Information  |
|  | 303.MX         | 9911892     |          | AT&T Wireless                           | INIGALICO       |             |           |  |

|        | Application | Patent  | Owner         | Country       | Application<br>Date | Grant<br>Date | Title   |
|--------|-------------|---------|---------------|---------------|---------------------|---------------|---|
| 303.TW | 87110178    | 110131  | AT&T Wireless | Taiwan        | 24-Jun-98           | 26-Apr-00     | Method of Intelligent<br>Roaming Using Network<br>Information               |
| 303.US | 08/883111   | 6223042 | AT&T Wireless | United States | 26-Jun-97           | 24-Apr-01     | Method of Intelligent<br>Roaming Using Network<br>Information               |
| 306.BR | 9800525-1   |         | AT&T Wireless | Brazil        | 30-Jan-98           |               | Method and Apparatus for<br>Serving Cell Code<br>Assignment                 |
| 306.CA | 2227138     | 2227138 | AT&T Wireless | Canada        | 15-Jan-98           | 16-Sep-03     | Method and Apparatus for<br>Serving Cell Code<br>Assignment                 |
| 306.MX | 980722      |         | AT&T Wireless | Mexico        | 26-Jan-98           |               | Method and Apparatus for<br>Serving Cell Code<br>Assignment                 |
| 306.TW | 87100967    | 111208  | AT&T Wireless | Taiwan        | 23-Mar-98           | 29-May-00     | Method and Apparatus for<br>Serving Cell Code<br>Assignment                 |
| 306.US | 1472506     | 6144851 | AT&T Wireless | United States | 31-Jan-97           | 07-Nov-00     | Method and Apparatus for<br>Serving Cell Code<br>Assignment                 |
| 307.BR | 1892355     |         | AT&T Wireless | Brazil        | 18-Dec-97           |               | Method of Mutual<br>Authentication for Secure<br>Wireless Service Provision |
| 307.CA | 2221665     | 2221665 | AT&T Wireless | Canada        | 20-Nov-97           | 07-Jan-03     | Method of Mutual<br>Authentication for Secure<br>Wireless Service Provision |
| 307.MX | 9710347     | 193809  | AT&T Wireless | Mexico        | 18-Dec-97           | 22-Oct-99     | Method of Mutual<br>Authentication for Secure<br>Wireless Service Provision |
| 307.TW | 86119522    | 110272  | AT&T Wireless | Taiwan        | 22-Dec-97           | 01-May-00     | Method of Mutual<br>Authentication for Secure<br>Wireless Service Provision |
| 307.US | 08/777341   | 5875394 | AT&T Wireless | United States | 27-Dec-96           | 23-Feb-99     | Method of Mutual<br>Authentication for Secure<br>Wireless Service Provision |
| 308.BR | 9706413-0   |         | AT&T Wireless | ·Brazil       | 18-Dec-97           |               | Method for Controlling<br>Channel Re-Selection                              |
| 308.CA | 2221820     | 2221820 | AT&T Wireless | Canada        | 20-Nov-97           | 30-Jul-02     | Method for Controlling<br>Channel Re-Selection                              |
| 308.MX | 9710341     | 199915  | AT&T Wireless | Mexico        | 18-Dec-97           | 30-Nov-00     | Method for Controlling<br>Channel Re-Selection                              |
| 308.TW | 86119184    | 125235  | AT&T Wireless | Taiwan        | 18-Dec-97           | 08-May-01     | Method for Controlling<br>Channel Re-Selection                              |

|              |             | •       |               |                 |             |           |  | _             |
|--------------|-------------|---------|---------------|-----------------|-------------|-----------|--|---------------|
| Docket       | Application | Patent  |               | Country         | Application | Grant     | Ţ  |               |
| Number       | Number      | Number  | Owner         | Name            | Date        | Date      | Method for Controlling                               | , ·           |
|              |             |         | AT&T Wirelace | United States   | 24-Dec-96   | 30-Nov-99 | Channel Re-Selection                                 | _             |
| 308.US       | 08/772829   | 5995834 | 2000          | -               | 07-May-99   | 31-Dec-02 | Method for Controlling<br>Channel Re-Selection       | <del></del>   |
| 308.US.C1    | 09/306760   | 6501951 | AT&I Wireless | T               | 20 (20)     |           | Method for Controlling                               |               |
|              |             |         |               |                 |             |           | Channel Re-Selection<br>From a Selected Control      | <del> :</del> |
|              |             |         | AT&T Mireless | United States   | 30-Jul-02   |           | Channel to an Alternative Control Channel            | т             |
| 308.US.C1(1) | 10/206963   |         |               | ooted S best-Li | 20.Aug.04   |           | Method for Controlling<br>Channel Re-Selection       |               |
| 308.US.C1(2) | mailed      |         | AT&T Wireless | Onlied States   | - Anuar     |           | Method and Apparatus for                             | _             |
|              |             |         |               |                 |             |           | Alerting a Station in One                            |               |
|              | ·.          |         |               |                 | .•          |           | Communication From a                                 | <del></del>   |
|              |             |         | AT&T Wireless | Brazil          | 18-Dec-97   |           | Second Network                                       | _             |
| 312.BR       | 1892840     |         |               |                 |             |           | Method and Apparatus for   Alerting a Station in One |               |
|              |             |         |               |                 |             |           | Network of a Requested                               |               |
|              |             |         |               |                 |             | ;         | Communication From a                                 |               |
| 47.04        | 2224854     | 2221854 | AT&T Wireless | Canada          | 20-Nov-97   | 18-Nov-03 | Second Network                                       | Ţ.            |
| 312.04       | 255 1034    |         |               |                 |             |           | Alerting a Station in One                            |               |
|              |             |         |               | •               |             |           | Network of a Requested                               |               |
|              |             | *       |               | European Patent |             |           | Communication From a                                 |               |
|              |             |         | AT&T Wireless | Convention      | 20-Nov-97   |           | Second Network                                       | T             |
| 312.EPC      | 97309352.9  |         |               |                 |             |           | Method and Apparatus for   Alerting a Station in One |               |
|              | •           | ·       |               |                 | -           |           | Network of a Requested                               |               |
|              |             |         |               |                 |             | · ··      | Communication From a                                 |               |
| 312.IP       | 9-350412    |         | AT&T Wireless | Japan           | 19-080-97   | <br> -    | Method and Apparatus for                             |               |
|              |             |         |               |                 |             |           | Alerting a Station in One                            |               |
|              |             |         |               |                 |             |           | Network of a Requested                               |               |
|              |             |         |               |                 | 19.Doc.07   | 07-Nov-03 | Second Network                                       |               |
| 312.MX       | 9710338     | 217407  | AT&T Wireless | Mexico          | 2000        |           | Method and Apparatus for                             |               |
|              |             |         |               |                 |             |           | Alerting a Station in One                            |               |
|              |             |         |               |                 |             |           | Communication From a                                 | · <del></del> |
| Cit          | 10075036    |         | AT&T Wireless | Norway          | 17-Dec-97   |           | Second Network                                       | ٦             |
| S12.NO       | 0000 1001   |         |               | \               |             |           |  |               |

|              |             |         | <u> </u>         |                 |             |            |  |            |
|--------------|-------------|---------|------------------|-----------------|-------------|------------|--|------------|
| Docket       | Application | Patent  |                  | Country         | Application | Grant      |  |            |
| Number       | Number      | Number  | Owner            | Name            | Date        | Date       | Title  |            |
|              |             |         | -                |                 |             |            | Method and Apparatus for                       | us for     |
|              |             | 2       |                  |                 |             |            | Alerting a Station in One                      | One<br>Che |
|              |             |         |                  |                 | -           |            | Communication From a                           | sted .     |
| 312.TW       | 86119517    | 104929  | AT&T Wireless    | Taiwan          | 22-Dec-97   | .04-Dec-99 | Second Network                                 |            |
| ٠            |             |         |                  |                 |             |            | Method and Apparatus for                       | us for     |
|              |             | •       |                  |                 |             |            | Alerting a Station in One                      | One        |
|              |             |         |                  |                 | •           |            | Network of a Requested                         | sted       |
|              |             |         |                  |                 |             |            | Communication From a                           | na .       |
| 312.US       | 08/777336   | 6230009 | AT&T Wireless    | United States   | .27-Dec-96  | 08-May-01  | Second Network                                 |            |
|              |             |         |                  |                 |             |            | Method and Apparatus for                       | us for     |
|              |             | •       |                  |                 |             |            | Alerting a Station in One                      | One        |
|              |             |         |                  |                 |             |            | Network of a Requested                         | sted       |
|              |             | •       |                  |                 |             |            | Communication From a                           | a r        |
| 312.US.C1    | 09/740181   | 6459897 | AT&T Wireless    | United States   | 18-Dec-00   | 01-Oct-02  | Second Network                                 |            |
|              | •           |         |                  |                 |             |            | Method and Apparatus for                       | us for     |
|              |             | •       |                  |                 |             |            | Alerting a Station in One                      | One        |
|              |             |         |                  |                 |             |            | Network of a Requested                         | sted       |
|              |             |         |                  |                 |             |            | Communication From a                           | e E        |
| 312.US.C1(1) | 10/241432   |         | AT&T Wireless    | United States   | 12-Sep-02   |            | Second Network                                 |            |
| •            |             |         |                  |                 |             |            |  |            |
|              | •••         |         |                  |                 |             |            | Method of Wireless                             |            |
| 313.BR       | 1893450     |         | AT&T Wireless    | Brazil          | 18-Dec-97   |            | Retrieval of Information                       | Eo         |
|              |             |         |                  |                 |             |            | Method of Wireless                             |            |
| 313.CA       | 2221666     |         | AT&T Wireless    | Canada          | 20-Nov-97   |            | Retrieval of Information                       | lon        |
|              |             |         |                  | Furnnean Datent |             |            | 1 fortherd of 18/18/1000                       |            |
| 313.EPC      | 97121958.9  |         | AT&T Wireless    | Convention      | 12-Dec-97   |            | Retrieval of Information                       | <u></u>    |
|              |             |         |                  |                 |             |            | Method of Wireless                             |            |
| 313.JP       | 9-351020    |         | AT&T Wireless    | Japan           | 19-Dec-97   |            | Retrieval of Information                       | jo         |
| 21.070       |             |         |                  |                 |             |            | Method of Wireless                             |            |
| 313.MA       | 9710240     |         | A I & I WITEIESS | MEXICO          | 18-280-71   |            | Mathed of Wifelons                             | 5          |
| 313 NO       | 19975935    |         | AT&T Wireless    | Norway          | 17-Dec-97   |            | Retrieval of Information                       |            |
|              |             | •       |                  |                 |             |            | Method of Wireless                             |            |
| 313.TW       | 86119180    | 105649  | AT&T Wireless    | Taiwan          | 18-Dec-97   | 17-Dec-99  | Retrieval of Information                       | ion        |
|              |             |         |                  |                 |             | 30         | Method of Wireless                             |            |
| 313.US       | 08/777983   | 6493430 | AT&T Wireless    | United States   | 24-Dec-96   | 10-Dec-02  | Retrieval of Information                       | 5          |
| 313.US.R1    | 10/419098   |         | AT&T Wireless    | United States   | 09-Jun-03   |            | Method of Wireless<br>Retrieval of Information | - Lo       |
|              |             |         |                  |                 |             |            | Method and Apparatus for                       | ns for     |
| 318.BR       | 1767500     |         | AT&T Wireless    | Brazil          | 03-Dec-97   |            | Data Network Call<br>Processing                | ÷          |
|              |             |         |                  |                 |             |            |  |            |

|           | 1000        | Patent  |               | Country         | Application | Grant             | Title   |      |
|-----------|-------------|---------|---------------|-----------------|-------------|-------------------|---|------|
| Docket    | Application | Number  | Owner         | Name            | Date        |                   | Method and Apparatus for                            |      |
| Number    | Nulling     |         |               |                 |             |                   | Data Network Call                                   |      |
|           |             | 7070000 | AT&T Wireless | Canada          | 10-Nov-97   | 01-Jan-02         | Method and Apparatus for                            |      |
| 318.CA    | 2220707     | 2220101 |               | Furopean Patent |             |                   | Data Network Call                                   |      |
| 700       | 97309093.9  |         | AT&T Wireless | Convention      | 12-Nov-97   |                   | Method and Apparatus for                            |      |
| 10.510    |             |         |               |                 | 05-Dec-97   |                   | Data Network Call<br>Processing                     |      |
| 318.JP    | 2306751     |         | AT&T Wireless | Japan           |             |                   | Method and Apparatus for Data Network Call          |      |
|           |             | 204370  | AT&T Wireless | ·Mexico·        | 02-Dec-97   | 26-Sep-01         | Processing Method and Apparatus for                 |      |
| 318.MX    | 9/9392      |         |               |                 | 04.00.00    |                   | Data Network Call<br>Processing                     |      |
| 318.NO    | 19975612    |         | AT&T Wireless | Norway          | 04-060-37   |                   | Method and Apparatus for Data Network Call          |      |
|           |             | 700     | AT&T Wireless | Taiwan          | 03-Dec-97   | 04-Mar-02         | Processing Method and Apparatus for                 |      |
| 318.TW    | 86118162    | 145831  |               |                 |             |                   | Data Network Call                                   |      |
| ,         |             | 6118778 | AT&T Wireless | United States   | 09-Dec-96   | 12-Sep-00         | Method and Apparatus for                            |      |
| 318.US    | 08//87      |         |               |                 | . "         |                   | Data Network Call                                   |      |
|           |             | 6778527 | AT&T Wireless | United States   | 30-Nov-99   | 17-Aug-04         | A Method for Time-                                  |      |
| 318.US.C1 | 109/451401  | 0110021 |               |                 |             |                   | Stamping a Message                                  |      |
|           |             | ·-      | i             | . • •           | 3           |                   | Based on a Recipient                                |      |
| 1         | 0001486 2   |         | AT&T Wireless | Brazil          | 27-May-98   |                   | A Method for Time-                                  |      |
| 332.BK    | 30011005    |         |               |                 |             | ٠.                | Stamping a Message<br>Based on a Recipient          |      |
|           |             |         | AT&T Wireless | Canada          | 27-Apr-98   |                   | Location<br>Method for Time-Stamping                |      |
| 332.CA    | 2235979     | ,8      |               | European Patent |             |                   | a Message Based on a                                |      |
|           |             |         | AT&T Wireless | Convention      | 22-May-98   | \<br>\<br>\<br>\- | A Method for Time-                                  |      |
| 332.EPC   | 98304082.5  |         |               |                 |             |                   | Stamping a Message Recipient                        | ·    |
|           |             |         |               | 200             | 77-Mav-98   |                   | Location  | · 1: |
| 332.JP    | 10-145288   |         | AT&T Wireless | Japan           |             |                   | Method for Time-Stampling<br>  a Message Based on a |      |
|           | 004248      | 219273  | AT&T Wireless | Mexico          | 28-May-98   | 04-Mar-04         | Reciplent Location                                  | ¬    |
| 332.MX    | 304540      |         |               |                 |             |                   |   |      |

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|-----------------------|--|--|--|--|---|---|---|---|---|---|---|---|
| Title                 | A Method for Time-<br>Stamping a Message<br>Based on a Recipient | Method for Time-Stamping<br>a Message Based on a<br>Recipient Location | Method for Time-Stamping<br>a Message Based on a<br>Reciolent Location | Method for Time-Stamping<br>a Message Based on a<br>Recipient Location | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a<br>Mobile Station | Method and System for<br>Providing Data<br>Communication With a |
| Grant<br>Date         | A 20 89 7  |  |  |  | <b>E Q O E</b>  | 30-Oct-01   | M<br>PP<br>C<br>C<br>C<br>13-Aug-03   |   | M<br>P.<br>C.<br>C.<br>13-Aug-03  |   | M<br>PP<br>C<br>C<br>13-Aug-03  |   |
| Application<br>Date   | 26-Mav-98  | 28-Mav-98  | 03-Jun-97  | 05-Apr-01  | 28-May-98   | 30-Apr-98   | 22-May-98   | 22-May-98   | 22-May-98   | 22-May-98   | 22-May-98   | 03-Jun-98   |
| Country<br>Name       | Vewoon   | Taiwan   | United States  | United States  | Brazil  | Canada  | Germany   | European Patent<br>Convention   | Finland   | France  | Great Britain   | Japan   |
| Owner                 | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   |
| Patent<br>Number      | 316993   | 111946   | 6239719  |  |   | 2236231   | . 69817086.5  | 883313  | . 883313  | 883313  | 883313  |   |
| Application<br>Number | 19982385   | 87108312   | 08/868401  | 09/825894  | 9806495-9   | 2236231   | 98304081.7  | 98304081.7  | 98304081.7  | 98304081.7  | 98304081.7  | 154083/1998   |
| Docket<br>Number      | 332.NO   | 332.TW   | 332.US   | 332.US.C1  | 333.BR  | 333.CA  | 333.DE  | 333.EPC   | 333.FI  | 333.FR  | 333.GB  | 333.JP  |

| Application Date  Date  01-Jun-98  26-May-98  1 22-May-98  1 28-May-98  1 28-May-98  1 12-Apr-02  31-Mar-98  12-Mar-98  12-Mar-98  12-Mar-98  12-Mar-98  12-Mar-98  03-Apr-98  | ,        |                   |         |               | -<br> -<br>     |                       | tu cro    |   |
|--|----------|-------------------|---------|---------------|-----------------|-----------------------|-----------|---|
| 19982384   AT&T Wireless   | cket     | Application       | Patent  |               | Country         | Application  <br>Date | Date      | Title   |
| 1982384   212436   AT&TWireless   Mexico   01-Jun-98   08-Jan-03   Morico   01-Jun-98    | nber     | Number            | Number  | Owner         |                 |                       |           | Mobile Station                                    |
| Proceedings   Process    |          |                   | •       |               |                 |                       |           | Method and System for                             |
| 19982384  |          |                   | ·       |               |                 |                       |           | Providing Data<br>Communication With a            |
| 19982384   A18T Wireless   Norway   26-May-96   Norway   COMBO   COM |          |                   |         |               |                 | 01~Jun-98             | 08-Jan-03 | Mobile Station .                                  |
| 19982384   AT&T Wireless   | <b>,</b> | 984353            | 212436  | AT&T Wireless |                 |                       |           | Method and System for                             |
| 19982384   AT&T Wireless   Norway   29-May-98   Norway   Proper Property    |          |                   |         |               |                 |                       |           | Providing Data<br>Communication With a            |
| 13-Aug-03  |          | 400002084         |         | AT&T Wireless | Norway          | 26-May-98             |           | Mobile Station<br>Method and System for           |
| St. 108311   St. 108313   AT&T Wireless   Sweden   22-May-98   13-Aug-03   Material  |          | +957564<br>193079 |         |               |                 |                       |           | Providing Data                                    |
| 98304061.7   983313   AT&TWireless   Sweden   12.0566   17.Apr.01   M   M   M   M   M   M   M   M   M  |          | . •               |         |               |                 | 22.Mav-98             | 13-Aug-03 | Mobile Station                                    |
| ST108311   123686   AT&T Wireless   Taiwan   28-May-98   17-Apr-01   M   M   M   M   M   M   M   M   M   | ш        | 98304081.7        | 883313  | AT&T Wireless | Sweden          | 26-INIG/ -00          |           | Method and System for                             |
| ST108311   123686   AT&T Wireless   Taiwan   28-May-98   17-Apr-01   M   M   M   M   M   M   M   M   M   |          |                   |         |               |                 |                       |           | Providing Data<br>  Communication With a          |
| Mailed   M |          | •                 |         |               | Toiwan          | 28-Mav-98             | 17-Apr-01 | Mobile Station                                    |
| C1 10/120548   | 3        | 87108311          | 123686  | AT&I Wireless | Idiwali         |                       |           | Method and System for                             |
| C1   10/120548   AT&T Wireless   United States   12-Apr-02   Not to the control of the control |          |                   | •       |               |                 |                       |           | Communication With a                              |
| 10/120548  |          |                   |         |               | Linited States  | 03-Jun-97             | 21-May-02 | Mobile Station                                    |
| C1(1) mailed   | S        | 08/868350         | 6393014 | AI&I WIREIESS | O SINCO COURS   |                       |           | Method and System for                             |
| 10/120548  |          |                   |         |               |                 |                       |           | Providing Data                                    |
| 10/120548  |          |                   |         |               | Octobal Charles | 12_Anr_02             |           | Mobile Station                                    |
| (1) mailed   | IS.C1    | 10/120548         |         | AT&T Wireless | United States   | 30-10U-71             |           | Method and System for                             |
| C1(1)         mailed         AT&T Wireless         United States         10-Sep-04         N           9801221-5         AT&T Wireless         Brazil         31-Mar-98         F           2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01           5         98302011.6         AT&T Wireless         Convention         18-Mar-98           96520/1998         AT&T Wireless         Japan         09-Apr-98           AT&T Wireless         Mexico         02-Apr-98   |          |                   |         |               |                 |                       |           | Providing Data                                    |
| C1(1) mailed   |          |                   |         |               | 1 Inited States | 10-Sep-04             |           | Mobile Station                                    |
| 9801221-5         AT&T Wireless         Brazil         31-Mar-98         F           2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01         6           5         98302011.6         AT&T Wireless         Convention         18-Mar-98         6           96520/1998         AT&T Wireless         Japan         09-Apr-98         6           AT&T Wireless         Mexico         02-Apr-98         6  | JS.C1(1) | mailed            |         | AT&T WIREIBSS | Ollifed Oldred  |                       |           | System and Method for                             |
| 9801221-5         AT&T Wireless         Canada         12-Mar-98         30-Oct-01         R           2231938         AT&T Wireless         Convention         18-Mar-98         30-Oct-01         R           30-0011.6         AT&T Wireless         Convention         18-Mar-98         R         R           96520/1998         AT&T Wireless         Japan         09-Apr-98         R         R           982578         AT&T Wireless         Mexico         02-Apr-98         R  |          | 1                 |         | AT&T Wireless | Brazil          | 31-Mar-98             |           | Processing Dropped Calls                          |
| 2231938 A1&1 Wireless Convention 18-Mar-98  96520/1998 AT&T Wireless Japan 09-Apr-98  AT&T Wireless Japan 02-Apr-98  AT&T Wireless Mexico 02-Apr-98  | 88       | 9801221-5         |         |               | Capada          | 12-Mar-98             | 30-Oct-01 | System and Method for<br>Processing Dropped Calls |
| 98302011.6         AT&T Wireless         Convention         18-Mar-98           96520/1998         AT&T Wireless         Japan         09-Apr-98           AT&T Wireless         Mexico         02-Apr-98  | A)       | 2231938           | 2231938 | Alai Wireless | European Patent |                       |           | System and Method for                             |
| 98302011.6 96520/1998 AT&T Wireless Japan 09-Apr-98 AT&T Wireless Mexico 02-Apr-98   |          |                   |         | AT&T Wireless | Convention      | 18-Mar-98             |           | Processing Dropped Calls                          |
| 96520/1998 AT&T Wireless Japan C3.75.53<br>AT&T Wireless Mexico 02-Apr-98  | EPC      | 98302011.6        |         |               |                 | 00.406-98             |           | Processing Dropped Calls                          |
| 982578 AT&T Wireless Mexico 02-Apr-98  | a,       | 96520/1998        |         | AT&T Wireless | oabaii          |                       |           | System and Method for                             |
|  | X        | 982578            |         | AT&T Wireless | Mexico          | 02-Apr-98             |           | Processing Dropped Calls                          |

|                  |                       |                  |               | ,                             |                     |           |   |   |
|------------------|-----------------------|------------------|---------------|-------------------------------|---------------------|-----------|---|---|
| Docket<br>Number | Application<br>Number | Patent<br>Number | Owner         | Country                       | Application<br>Date | Grant     | Title   |   |
| 334.NO           | 19981596              |                  | AT&T Wireless | Norway                        | 07-Apr-98           |           | System and Method for<br>Processing Dropped Calls   |   |
| 334.TW           | 87105092              | 111939           | AT&T Wireless | Taiwan                        | 03-Apr-98           | 13-Jun-00 | System and Method for<br>Processing Dropped Calls   |   |
| 336.US           | 08/902373             | 6314303          | AT&T Wireless | United States                 | 29-Jul-97           | 06-Nov-01 | Apparatus for Providing<br>Enhanced Functionality to<br>a Mobile Station  |   |
| 340.US           | 08/996764             | 6477376          | AT&T Wireless | United States                 | 23-Dec-97           | 05-Nov-02 | Method for Designing Wireless Communications Cell Sites Using Uplink Parameters                                   |   |
| 342.US           | 08/996486             | 99603966         | AT&T Wireless | United States                 | 23-Dec-97           | 05-Aug-03 | A Method and System for Optimizing Performance of a Mobile Communications System                                  |   |
| 342.US.C1        | 10/307668             |                  | AT&T Wireless | United States                 | 02-Dec-02           |           | A Method and System for Optimizing Performance of a Mobile Communications System                                  |   |
| 346.US           | 08/838582             | 6014559          | AT&T Wireless | United States                 | 10-Aor-97           | 11-Jan-00 | Method and System for Delivering a Voice Mail Notification to a Private Base Station Using Cellular Phone Network |   |
| 347.US           | 68999                 |                  | AT&T Wireless | United States                 | 04-Dec-97           |           | Method and Apparatus for Voice Mail Sharing Between Wired and Wireless Telephones                                 |   |
| 352.BR           | 9801756-0             |                  | AT&T Wireless | Brazil                        | 02-Jun-98           |           | Method for Locating a<br>Mobile Station   |   |
| 352.CA           | 2235982               | 2235982          | AT&T Wireless | Canada                        | 27-Apr-98           | 29-Jun-04 | Method for Locating a<br>Mobile Station   |   |
| 352.MX           | 984355                | 207198           | AT&T Wireless | Mexico                        | 01-Jun-98           | 14-Mar-02 | A Method for Locating a<br>Mobile Station   |   |
| 352.TW           | 87108313              | 116657           | AT&T Wireless | Talwan                        | 28-May-98           | 24-Oct-00 | A Method for Locating a<br>Mobile Station   |   |
| 352.US           | 08/868402             | 6167274          | AT&T Wireless | United States                 | 03-Jun-97           | 26-Dec-00 | Method for Locating a<br>Mobile Station   |   |
| 353.CA           | 2275186               | 2275186          | AT&T Wireless | Canada                        | 14-Oct-98           | 16-Dec-03 | Customized On-Line User<br>Guide  | : |
| 353.EPC          | 98953442.5            |                  | AT&T Wireless | European Patent<br>Convention | 14-Oct-98           |           | Customized On-Line User<br>Guide  |   |
|                  |                       |                  |               |                               |                     |           |   |   |

| Polication Number         Owner         Country Name         Application Date           Vumber         Name         Date           Vumber         AT&T Wireless         Japan         14-Oct-98           62         AT&T Wireless         Mexico         14-Oct-98           62         AT&T Wireless         United States         22-Oct-97           69275         6795702         AT&T Wireless         United States         22-Oct-97           566933         6092110         AT&T Wireless         United States         22-Oct-97           566934         6647418         AT&T Wireless         United States         22-Oct-97           566935         6692110         AT&T Wireless         United States         22-Oct-97           569204         AT&T Wireless         United States         22-Oct-97           569204         AT&T Wireless         Brazil         110-Jun-98           504042.9         AT&T Wireless         Japan         08-Jun-98           5050503         AT&T Wireless         Japan         09-Jun-98           5061220-7         AT&T Wireless         Taiwan         09-Jun-98           5061220-7         AT&T Wireless         Canada         12-Mar-98           506120-7         AT&T   |                                       |          |         |                 |                 |             | - +000     |  |
|--|---------------------------------------|----------|---------|-----------------|-----------------|-------------|------------|--|
| Number   Number   Owner   Name   Coccord   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | lication | Patent  |                 |                 | Application | Date       | Title  |
| AT&TWIreless   Japan   14-Oct-86   Cur   | d z                                   | Inter    | Number  | Owner           |                 | Oako        |            | Customized On-Line User                              |
| AT&I Wireless   Mexico   14-Oct-86   Guis  | 3228                                  |          |         | AT&T Wireless   |                 | 4-Oct-98    |            |  |
| Current  |                                       |          | - 100   | A TO T Miroloce |                 | 4-Oct-98    |            | Customized On-Line Oser                              |
| 6400940   AT&T Wireless   United States   22-Oct-97   O4-Jun-02   Out-02   Out-03   Out-04   Out-04   Out-05   Out-05  | 995662                                | 2        |         | Alai Wiicico    |                 |             | • •        | Customized On-Line User                              |
| G195702   AT&I Wireless   United States   26-Mar-02   21-Sep-04. Gun   |                                       |          | 6400040 | AT&T Wireless   | 一十              | 22-Oct-97   | 04-Jun-02  | Guide<br>Customized On-Line User                     |
| Canada   C | 5                                     | 613U     | 6795702 | AT&T Wireless   | United States   | 26-Mar-02   | 21-Sep-04  | Guide A Method and Apparatus                         |
| 2272054   AT&T Wireless   Canada   23-Oct-97   18-Jul-00   Practical   Pract |                                       | 8773     |         |                 |                 | 80,500      | 23-Sep-03. | for Filtering Packets Using a Dedicated Processor    |
| Sea710   AT&T Wireless   United States   23-Oct-97   18-Jul-00   Property of the Composition of the Compos | 2272                                  | 054      | 2272054 | AT&T Wireless   | Canada          | 26-170-02   |            | Apparatus for Filtering<br>Packets Using a Dedicated |
| Sea7418  | 9                                     |          | 6092110 | AT&T Wireless   | United States   | 23-Oct-97   | 18-Jul-00  | Processor<br>Method and Apparatus for                |
| Big   Big  |                                       | 2882     |         |                 |                 | SE-May-00   | 11-Nov-03  | Filtering Packets Using a Dedicated Processor        |
| AT&T Wireless   Brazil   10-Jun-98   F F F F F F F F F F F F F F F F F F   | 9/60                                  | 80204    | 6647418 | AT&T Wireless   | United States   | 20 (201.07  |            | Method and Apparatus for Filtering Packets Using a   |
| 2.9         AT&T Wireless         United State         European Patent         10-Jun-98         P           2.9         AT&T Wireless         Convention         21-May-98         P           1.2         AT&T Wireless         Japan         08-Jun-98         P           3         AT&T Wireless         Mexico         08-Jun-98         P           6         110725         AT&T Wireless         Taiwan         05-Jun-98         12-May-00           6         110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           2         AT&T Wireless         Brazil         31-Mar-98         06-Nov-01           2         AT&T Wireless         Canada         12-Mar-98         06-Nov-01           2         AT&T Wireless         Convention         18-Mar-98         06-Nov-01  |                                       |          |         | •               | Claired Chaten  | 30-Sep-03   |            | Dedicated Processor                                  |
| 2.9         AT&T Wireless         Brazil         10-Jun-98         P           2.9         AT&T Wireless         Convention         21-May-98         P           1.2         AT&T Wireless         Japan         08-Jun-98         P           3         AT&T Wireless         Mexico         08-Jun-98         P           6         110725         AT&T Wireless         Taiwan         05-Jun-98         P           9-7         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           2         AT&T Wireless         Brazil         31-Mar-98         06-Noy-01           2         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           2         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           2         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           2         AT&T Wireless         Convention         18-Mar-98         06-Noy-01   | ş                                     | 573439   |         | AT&T Wireless   | Olifor District |             |            | User Assisted Wireless<br>Fraud Detection            |
| 2.9         AT&T Wireless         Convention         21-May-98         F           12         AT&T Wireless         Japan         08-Jun-98         L           3         AT&T Wireless         Mexico         08-Jun-98         L           3         AT&T Wireless         Norway         05-Jun-98         L           6         110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           2         AT&T Wireless         European         12-Mar-98         06-Noy-01           2         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           2         AT&T Wireless         Convention         18-Mar-98         06-Noy-01   | è                                     | 11003    |         | AT&T Wireless   | Brazil          | 10-Jun-98   |            | User Assisted Wireless                               |
| 2.9         AT&T Wireless         Japan         08-Jun-98         F           32         AT&T Wireless         Mexico         08-Jun-98         L           53         AT&T Wireless         Norway         05-Jun-98         L           76         110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           6-7         AT&T Wireless         Brazil         31-Mar-98         06-Noy-01           2         2231932         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           12.4         AT&T Wireless         Convention         18-Mar-98         06-Noy-01   | ő                                     | 26610    |         | AT&T Wireless   | Convention      | 21-May-98   |            | Fraud Detection                                      |
| 32         AT&T Wireless         Japan         Vo-Jun-98         F           13         AT&T Wireless         Norway         05-Jun-98         F           76         110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           6-7         AT&T Wireless         Brazil         31-Mar-98         12-May-00           2         2231932         AT&T Wireless         Canada         12-Mar-98         06-Nov-01           12.4         AT&T Wireless         Convention         18-Mar-98         Convention   | 8                                     | 304042.9 |         | 1010            |                 | 00 001      |            | Fraud Detection                                      |
| 33         AT&T Wireless         Mexico         08-Jun-98         F           53         AT&T Wireless         Norway         05-Jun-98         P           76         110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           9-7         AT&T Wireless         Brazil         31-Mar-98         06-Noy-01           2         2231932         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           12.4         AT&T Wireless         Convention         18-Mar-98         06-Noy-01   | -<br>-                                | .158792  |         | AT&T Wireless   | Japan           |             |            | User Assisted Wireless                               |
| 13         AT&T Wireless         Norway         05-Jun-98         12-May-00           76         110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           0-7         AT&T Wireless         Brazil         31-Mar-98         06-Noy-01           2         2231932         AT&T Wireless         Canada         12-Mar-98         06-Noy-01           12.4         AT&T Wireless         Convention         18-Mar-98         18-Mar-98   |                                       |          | ·<br>   | AT&T Wireless   | Mexico          | Ì           |            | Fraud Detection                                      |
| AT&T Wireless         Noiway         12-May-00           110725         AT&T Wireless         Taiwan         09-Jun-98         12-May-00           AT&T Wireless         Brazil         31-Mar-98         06-Noy-01           European Patent         European Patent         18-Mar-98         Convention   | 8                                     | 4569     |         |                 |                 | 05-3un-98   |            | Fraud Detection                                      |
| 110725   AT&T Wireless   Taiwan   09-Jun-98   12-Weg-755   | _=                                    | 1982603  |         | AT&T Wireless   | Notway          |             | 42 May 00  | User Assisted Wireless<br>Fraud Detection            |
| AT&T Wireless         Brazil         31-Mar-98           2231932         AT&T Wireless         Canada         12-Mar-98         06-Nov-01           European Patent         European Patent         AT&T Wireless         Convention         18-Mar-98   |                                       | 109176   | 110725  | AT&T Wireless   | Taiwan          | 96-Jun-98   | 20 Calvis  | System and Method for                                |
| 2231932 , AT&T Wireless Canada 12-Mar-98 06-Nov-01 European Patent 18-Mar-98 AT&T Wireless Convention 18-Mar-98  | 1                                     | 100070   |         | AT&T Wireless   | Brazil          | 31-Mar-98   |            | System and Method for                                |
| 2231932 Anary Mineless Convention 18-Mar-98  | <u> </u>                              | 301220-1 |         | ATOT Mirelace   | Canada          | 12-Mar-98   | 06-Nov-01  | Processing Urophed Calls                             |
| AT&T Wireless   Convention   10-wai-30   | - 17                                  | 231932   | 2231932 | Algi William    | European Paten  |             |            | System and Method for Processing Dropped Calls       |
|  |                                       |          |         | AT&T Wireless   | Convention      | 10-Mai-30   |            |  |

|           | •           | •        |               |                 |                     |               |  |  |
|-----------|-------------|----------|---------------|-----------------|---------------------|---------------|--|--|
| Docket    | Application | Patent   | Owner         | Country         | Application<br>Date | Grant<br>Date | Title  |  |
| 365.IP    | 96519/1998  |          | AT&T Wireless | Japan           | 09-Apr-98           |               | System and Method for<br>Processing Dropped Calls  |  |
| SAS MY    | 082570      |          | AT&T Wireless | Mexico          | 02-Apr-98           |               | System and Method for<br>Processing Dropped Calls  |  |
| 365 NO    | 19981595    |          | AT&T Wireless | Norway          | 07-Apr-98           |               | System and Method for<br>Processing Dropped Calls  |  |
| 365.SF    | 98302012 4  |          | AT&T Wireless | Sweden          | 18-Mar-98           | . *           | System and Method for<br>Processing Dropped Calls  |  |
| 365.TW    | 87105091    | 108902   | AT&T Wireless | Taiwan          | 03-Apr-98           | 27-Mar-00     | System and Method for<br>Processing Dropped Calls  |  |
| 365.US    | 08/838659   | 5995830  | AT&T Wireless | United States   | 09-Apr-97           | 30-Nov-99     | System and Method for<br>Processing Dropped Calls  |  |
| 311828    | 1710280     | 6201797  | AT&T Wireless | United States   | 12-Dec-97           | 13-Mar-01     | High Bandwidth Delivery and Internet Access for Airborne Passengers  |  |
|           | 0700000     |          | AT2T Mireloss | I Inited States | 13-Mar-03           |               | High Bandwidth Delivery and Internet Access for Airborne Passengers  |  |
| 373.03.01 | 01000000    |          |               |                 |                     |               | A Method and Apparatus<br>for Determining Billing<br>Rates for Communication   |  |
| 391.US    | 866601      | ·        | AT&T Wireless | United States   | 17-Aug-98           |               | Services<br>Mobile Station Roaming in  |  |
| 392.US    | 850164      | 6188897  | AT&T Wireless | United States   | 17-Aug-98           | 13-Feb-01     | a Multiple Service Provider Area   |  |
| 392.US.C1 | 2132166     | 6470182  | AT&T Wireless | United States   | 15-Sep-00           | 22-Oct-02     | Mobile Station Roaming in a Multiple Service Provider Area   |  |
| 394.US    | 08/997085   | 6704565  | AT&T Wireless | United States   | 23-Dec-97           | 09-Mar-04     | Method and Apparatus for Providing a Hold Termination Message Service in a Communications Network  |  |
| 402.CA    | 2254393     | 2254393  | AT&T Wireless | Canada          | 24-Nov-98           | 26-Feb-02     | Method and Apparatus for Providing Calling Number Identification Alias in a Communications System Method and Amaratus for Identification and Ide |  |
| 402.DE    | 98123490.9  | 69800769 | AT&T Wireless | Germany         | 14-Dec-98           | 09-May-01     | Providing Calling Number Identification Allas in a Communications System   |  |
|           |             |          |               |                 |                     | •             |  |  |

| Country         Application Number         Patent Number         Owner         Country Name         Application Date Date           Der         Number         Number         Owner         Name         Date         09           88123490.9         926910         AT&T Wireless         Convention         14-Dec-98         00           98123490.9         926910         AT&T Wireless         France         14-Dec-98         00           C1         101/88521         6662006         AT&T Wireless         Great Britain         14-Dec-98         0           C2         98124229         AT&T Wireless         Canada         10-Dec-98         0           C3         101/88521         6662006         AT&T Wireless         Canada         10-Dec-98         3           C4         101/88521         6662006         AT&T Wireless         Canada         10-Dec-98         3           C5         98124229         AT&T Wireless         Canada         10-Dec-98         3           C6         98124229         AT&T Wireless         Wexico         16-Dec-98           C7         10017042         ATAT Wireless         United States         14-Dec-98           C8         160694831         ATAT Wireless         U  |            |             |         |                  |                  |                     | 9 19 10   |                            |
|--|------------|-------------|---------|------------------|------------------|---------------------|-----------|----------------------------|
| Number   N | Docket     | Application | Patent  |                  | Country          | Application<br>Date | Oate      | Title                      |
| 98123490.9   926910   AT&T Wireless   Convention   14-Dec-98   09-May-01   10-Dec-98   14-Dec-98   09-May-01   10-Dec-98   14-Dec-98   09-May-01   10-Dec-98   14-Dec-98   11-Dec-98   1 | Number     | Number      | Number  | Owner            | Name             |                     |           | Method and Apparatus for   |
| 98123490.9   926910   AT&TWireless   Convention   14-Dec-98   19440401   Convention   14-Dec-98   Conven |            |             |         |                  | European Patent  |                     |           | Identification Alias in a  |
| Sel12480.9   S26910   AT&T Wireless   France   14-Dec-68   09-May-01   100   |            |             | 028010  | AT&T Wireless    |                  | 14-Dec-98           | 09-May-01 | Method and Apparatus for   |
| 14-Dec-98   14-D | 02.EPC     | 98123490.9  | 320310  |                  | -                |                     |           | Providing Calling Number   |
| Sel123490.9   S26910   AT&I Wireless   France   14-Dec-98   09-May-011   Control of the contro | •          | •           |         |                  |                  |                     |           | Identification Alias in a  |
| 98123490.9 926910   AT&T Wireless   Trainco   14.Dec.96   09-May-01   Proceed   Process   14.Dec.96   09-May-01   Process   14.Dec.96   09-Dec.03   Process   14.Dec.96   19.Dec.97   Process   19.Dec.97   Process  | •          | ·           |         |                  | 0000             | 14-Dec-98           | 09-May-01 | Communications System      |
| Part   | 02.FR      | 98123490.9  | 926910  | AT&T Wireless    | Lighted          |                     |           | Method and Apparatus for   |
| Sel103490.9   926910   AT&T Wireless   Great Britain   14-Dec-96   09-May-011   Cross   Cros | 7          |             |         |                  |                  |                     |           | Providing Calling Number   |
| Sept 23490.9   926810   AT&T Wireless   Great Britain   14-Dec-96   09-May-01   Control of the |            |             |         |                  |                  | •                   |           | Identification Allas in a  |
| Sel123490.9   926910   AT&T Wireless   Order Critical  |            |             |         |                  | Crost Britain    | 14-Dec-98           | 09-May-01 | Communications System      |
| Particles   Part | 102.GB     | 98123490.9  | 926910  | AT&I WIREIESS    | Olcar Dinami     |                     |           | Method and Apparatus for   |
| 10   10   10   10   10   10   10   10  |            |             |         |                  |                  |                     |           | Providing Calling Number   |
| 10/188521   209390   AT&T Wireless   Mexico   14-Dec-88   31-Ju-92   Mexico   10/188521   G662006   AT&T Wireless   United States   02-Jul-02   09-Dec-03   O  |            | ٠.          |         |                  |                  | •                   | 7.        | Communications System      |
| 10.1186521   6662006   AT&T Wireless   United States   02-Jul-02   09-Dec-03   Convention   17-Dec-88   Convention   17-Dec-98   Convention   17 |            |             | 00000   | AT&T Wireless    | Mexicó           | 14-Dec-98           | 31-301-02 | Method and Apparatus for   |
| 10/188521   6662006   AT&T Wireless   United States   02-Jul-02   09-Dec-03   Convention   10-Dec-98   Maxico   16-Dec-98   Maxico   16-Dec-97   Maxico   16-Dec-98   Maxico   16-Dec-97   Maxico   16-Dec-98   Maxico   16-Dec-97   Maxico   16-Dec-98   Maxico   16-Dec-97   Maxico   16-Dec-98   16-Dec-97   Maxico   16-Dec-98   Maxico   16-Dec-97   Maxico   16-Dec-98   Maxico   16-Dec-98 | 402.MX     | 9810631     | 202020  |                  |                  |                     |           | Providing Calling Number   |
| 10/188521   6662006   AT&T Wireless   United States   O2-Jul-02   O9-Dec-03   O9-Dec-03  |            |             |         |                  |                  |                     |           | Identification Alias in a  |
| 107188521 6662006   AT&T Wireless   United States   19-Dec-91   N M M Mexico   | •          |             |         |                  | Italian Chatos   | 02-1111-02          | 09-Dec-03 | Communications System      |
| 2255475 AT&T Wireless Canada 10-Dec-98 N 98124229 AT&T Wireless Convention 17-Dec-98 N 9810839 AT&T Wireless Wexico 16-Dec-98 N AT&T Wireless United States 19-Dec-97 N AT&T Wireless United States 21-Nov-01 18-Nov-03 1918499 6850897 AT&T Wireless Canada 20-Oct-88 22-Sep-03   | 10,511,504 | 10/188521   | 6662006 | AT&T Wireless    | United States    | 25.00.70            |           | Methods and Systems for    |
| C         98124229         AT&T Wireless         Canada         10-Dec-98         N           C         98124229         AT&T Wireless         Convention         17-Dec-98         N           C         9810839         AT&T Wireless         Mexico         16-Dec-98         N           C         06/994831         AT&T Wireless         United States         19-Dec-97         N           C         10/017042         AT&T Wireless         United States         14-Dec-01         N           A         2272056         AT&T Wireless         United States         21-Nov-01         18-Nov-03   | 105:00:00  |             |         |                  |                  | •                   |           | Managing the Routing of    |
| Convention         10-Dec-98         No. Dec-98         No. Dec-99         No. Dec-  |            | ٠.          |         |                  |                  |                     |           | Packets Over a nyono       |
| 2255475  2255475  Convention  Convention  T-Dec-98  AT&T Wireless  Convention  T-Dec-98  Mexico  16-Dec-98  N  AT&T Wireless  United States  14-Dec-01  AT&T Wireless  United States  AT&T Wireless  United States  AT&T Wireless  AT&T Wireless  Canada  2272056  AT&T Wireless  Canada  Canada  Canada  Convention  T-Dec-98  N  N  N  N  N  N  N  N  N  N  N  N  N  |            |             | •       | atet Missions    | Canada           | 10-Dec-98           |           | Network                    |
| C         98124229         AT&T Wireless         Convention         17-Dec-98         N           C         9810839         AT&T Wireless         Mexico         16-Dec-98         N           B         08/994831         AT&T Wireless         United States         19-Dec-97         N           B         AT&T Wireless         United States         14-Dec-01         18-Nov-03           B         AT&T Wireless         United States         21-Nov-01         18-Nov-03           A         2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03  | 405.CA     | 2255475     |         | Alai Wileless    |                  |                     |           | Methods and systems to     |
| Sel124229   AT&T Wireless   Convention   17-Dec-98   No. 100   |            |             |         |                  |                  |                     |           | Managing the Routing of    |
| S9124229         AT&T Wireless         Convention         17-Dec-98         No.04           9810839         AT&T Wireless         Mexico         16-Dec-98         No.04           C1         10/017042         AT&T Wireless         United States         14-Dec-07         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           C272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03  |            |             |         |                  | European Patent  |                     |           | Packets Over a nyong       |
| 98124229   AT&T Wireless   Mexico   16-Dec-98   Nexico   16-Dec-98   Nexico   16-Dec-98   Nexico   16-Dec-97   N |            |             |         | 00010-0111-0-0-0 | Convention       | 17-Dec-98           |           | Network                    |
| 9810839         AT&T Wireless         Mexico         16-Dec-98         P           08/994831         AT&T Wireless         United States         19-Dec-97         P           C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           C2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   | 405.EPC    | 98124229    |         | AI&I WITEIESS    |                  |                     |           | Methods and Systems IO     |
| 9810839         AT&T Wireless         Mexico         16-Dec-98         N           08/994831         AT&T Wireless         United States         19-Dec-97         P           C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03  |            |             |         |                  | •                |                     |           | Managing the Kouling of    |
| 9810839         AT&T Wireless         Mexico         16-Dec-98         R           08/994831         AT&T Wireless         United States         19-Dec-97         P           C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03  |            |             |         |                  | :                |                     |           | Packets Over a Light       |
| 9810839         AT&T Wireless         United States         19-Dec-97           C1         10/017042         AT&T Wireless         United States         14-Dec-01           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   |            |             |         | ATOT Mirefoce    | Mexico           | 16-Dec-98           |           | Network : Sections for     |
| C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   | 405.MX     | 9810839     |         | Alai wiidiga     |                  |                     |           | Memods and Systems is      |
| C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   |            |             | ·.      |                  |                  |                     |           | Dackets Over a Hybrid      |
| C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   | ٠          |             |         |                  |                  |                     |           | Network                    |
| C1 10/017042 AT&T Wireless United States 14-Dec-01 18-Nov-03  C1 1918499 6650897 AT&T Wireless Canada 20-Oct-98 23-Sep-03  |            |             |         | AT&T Wireless    | United States    | 19-Dec-9/           |           | Methods and Systems for    |
| C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   |            | ┪           |         |                  |                  |                     |           | Managing the Routing of    |
| C1         10/017042         AT&T Wireless         United States         14-Dec-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03   |            |             |         |                  |                  |                     | ٠.        | Packets Over a Hybrid      |
| C1         10/017042         AT&T Wireless         United States         21-Nov-01         18-Nov-03           C1         1918499         6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           AT&T Wireless         Canada         20-Oct-98         23-Sep-03   |            |             |         |                  | 1 to the distant | 14-090-01           |           | Network                    |
| C1 1918499 6650897 AT&T Wireless United States 21-702-03 23-Sep-03 2272056 AT&T Wireless Canada 20-Oct-98 23-Sep-03  | 405.US.C1  | 10/017042   |         | AT&T Wireless    | United States    | 21-Nov-01           | 18-Nov-03 | Aircraft Cockpit Telephony |
| 2272056 2272056 AT&T Wireless Canada 20-Oct-98 23-Sep-03   | 408.US.C1  | 1918499     | 6650897 | AT&T Wireless    | United States    | 7 1010              |           | A Method and Apparatus     |
| 2272056   2272056   Alat Wiletess  |            |             |         | atot Mireless    | Canada           | 20-Oct-98           | 23-Sep-03 | for Updating Address Lists |
|  | 411.CA     | 2272056     | 2272056 | AIGI Wireigas    |                  |                     |           |                            |

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|---|-------------------------------------|--------|----------------------------------|---|--------------------------|----------------|--|---|------------------|--|--|-----------------------|--|---------------|-----------------------|-------------------------|---------------|--|-------------------------|---------------|--|-------------------------|----------------|--|----------------------|----------------|--|--|---|
|   | · · · · · · · · · · · · · · · · · · | Title  | for a Packet Filter<br>Processor | Method and Apparatus for<br>Updating Address Lists for<br>a Packet Filter Processor | Method and Apparatus for | Location-Based | Information Content on a Wireless Device | Apparatus and Method for Providing Transporting for | a Control Signal | Method and Apparatus for Limiting Access to Network Elements | Method and Apparatus for Limiting Access to Network Elements | System and Method for | Integrating Call Delivery for<br>Fixed-Site and Mobility | Services      | Method and System for | Telephone Calls From an | P Connection  | Method and System for<br>Remote Call Forwarding of | Telephone Calls From an | P Connection  | Method and System for<br>Remote Call Forwarding of | Telephone Calls From an | P Connection   | Method and System for<br>Remote Call Forwarding of | Telephone Calls From | Cellular Phone | Method and System for<br>Remote Call Forwarding of | Telephone Calls From<br>Cellular Phone |   |
|   | Grant                               | Date   |                                  | 05-Dec-00   |                          |                | 17-Jun-03                                |   | 30-Jul-02        | 03-Jul-01  | 25-Dec-01  |                       |  |               |                       |                         |               |  |                         |               |  |                         |                |  |                      | 31-Oct-00      |  |  |   |
|   | Application                         | Date   |                                  | 23-Oct-97   |                          |                | 17-Aug-98                                | ·   | 08-Dec-98        | 17-Aug-98  | 23-Apr-01  |                       |  | 29-Dec-99     |                       |                         | 18-Sep-01     |  |                         | 18-Mar-03     |  |                         | 18-Sep-01      |  | •                    | 22-Jan-98      |  | 29-Apr-03                              |   |
|   | Country                             | Name   |                                  | United States   |                          |                | United States                            | *   | United States    | United States  | United States  |                       | •  | United States |                       | European Patent         | Convention    |  | •                       | Japan         | Patent   | Cooperation             | reary          |  |                      | United States  |  | United States                          |   |
|   |                                     | Owner  |                                  | AT&T Wireless   |                          |                | AT&T Wireless                            |   | AT&T Wireless    | AT&T Wireless  | AT&T Wireless  |                       |  | AT&T Wireless |                       |                         | AT&T Wireless |  |                         | AT&T Wireless |  |                         | AT&T Wireless  |  |                      | AT&T Wireless  |  | AT&T Wireless                          |   |
| - | Patent                              | Number |                                  | 6158008   |                          |                | 6580914                                  |   | 6427071          | 6256735  | 6334188  |                       |  |               |                       |                         |               |  |                         |               |  |                         |                |  |                      | 6141545        |  |  |   |
|   | Application                         | Number |                                  | 08/956990   |                          |                | 868062                                   |   | 09/207370        | 772368   | 09/839113  |                       |  | 09/474138     |                       | •                       | 1973089.4     |  |                         | 2002-527188   |  |                         | PC1/US01/29029 |  | •                    | 09/010616      |  | 10/426046                              |   |
|   | Docket                              | Number |                                  | 411.US  |                          |                | 412.US                                   |   | 414.US           | 416.US   | 416.US.C1  |                       |  | 422.US        |                       |                         | 423.EPC       |  | -                       | 4Z3.JP        |  |                         | 423.PC1.CP1    | :  |                      | 423.US         |  | 423.US.C1                              |   |

|             |                       |   |                       |                           |              |                       |                           |              |                  |                          |                          |                     |                    |               |                      |                      |                    |              |                      |                      |                    |                |                 |                          | _                         |                          |                              |                        | •               |                     |                      |                       |                  | <u>.                                    </u> |  | ı             |
|-------------|-----------------------|---|-----------------------|---------------------------|--------------|-----------------------|---------------------------|--------------|------------------|--------------------------|--------------------------|---------------------|--------------------|---------------|----------------------|----------------------|--------------------|--------------|----------------------|----------------------|--------------------|----------------|-----------------|--------------------------|---------------------------|--------------------------|------------------------------|------------------------|-----------------|---------------------|----------------------|-----------------------|------------------|--|--|---------------|
|             | Method and System for | Remote Call Forwarding of Telephone Calls From an | Method of Notifying a | Wireless Subscriber as to | Call Payment | Method of Notifying a | Wireless Subscriber as to | Call Pending | Responsibilities | Aircraft Cabin Telephony | Annaratus and Method for | Batch Processing of | Wireless Financial | Transactions  | Method for Providing | Alternative Network- | Associated Service | Registration | Method for Providing | Alternative Network- | Associated Service | Address Mobile | Registration    | Method and Apparatus for | Providing Centralized URL | Automatic Diagnostic for | Detection of Interference in | Wireless Communication | System          | System for Securing | Inbound and Outbound | Data Packet Flow in a | Computer Network | Apparatus and Method for                     | Optimizing Wireless Financial Transactions |               |
| Grant       | Date                  |   | co-yew-72             |                           |              | 04-Mar-03             |                           |              |                  |                          |                          | ·<br>               |                    | 09-Feb-99     |                      |                      |                    |              | -                    |                      |                    |                |                 |                          |                           |                          |                              |                        | 10-Aug-04       |                     | • •                  | •                     |                  |  | 25 1121, 00                                | 20 (Blue)     |
| Application | Date                  |   | 18-Sep-00             |                           |              | 19-May-99             |                           |              | 10-Oct-02        |                          | 25-Aug-00                | •                   |                    | 22-Sep-95     |                      |                      |                    | 00 11        | 11-201-88            |                      |                    |                | 07-Jul-04       |                          |                           | 19-May-99                |                              |                        | 10-A110-01      | - Para              |                      |                       | 19-May-99        |  |  | C6-dac-77     |
| Country     | Name                  |   | United States         |                           |              | United States         |                           |              | United States    |                          | United States            |                     |                    | United States |                      |                      |                    |              | United States        |                      | •                  |                | 1 Inited States | Samo Pallo               |                           | United States            |                              |                        | 1 Inited Chates | United States       |                      | ٠                     | United States    |  |  | United States |
|             | Owner                 |   | AT&T Wireless         |                           |              | AT&T Wireless         |                           |              | A TO T Mireless  | Alai Wileicos            | AT&T Wireless            |                     |                    | ATPT Wirelace | AIGH WILEGESS        |                      |                    |              | AT&T Wireless        |                      |                    |                |                 | Alai Wireless            |                           | AT&T Wireless            |                              |                        |                 | AT&T Wireless       |                      |                       | AT&T Wireless    |  |  | AT&T Wireless |
| Patent      | Number                | ·   | 6571094               |                           |              | 6520726               | 27.57.50                  | -            |                  |                          | •                        |                     |                    |               | 5870722              |                      |                    |              |                      |                      |                    |                |                 |                          |                           |                          |                              |                        |                 | 6775544             | •                    |                       |                  |  | * .  | 5907801       |
| Application | Number                |   | 7567977               |                           |              |                       | 09/31300                  |              |                  | 1371396                  | 00/648047                | 03/04034/           |                    |               | 2152224              |                      |                    |              | 252004               |                      |                    |                |                 | 10/884986                |                           | 000345000                | 03/212000                    |                        | • •             | 2265114             |                      |                       |                  | 09/314330                                    | *  | 2151858       |
| Docket      | Number                |   | 100 311661            | 1                         |              |                       | 424.US                    |              |                  | 424.US.C1                | 10 01 100                | 425.US.C1           |                    |               | 427.US               |                      |                    |              | 31 907               | 428.03               |                    |                |                 | 428.US.C1                |                           |                          | 429.US                       |                        |                 | 430.US.C1           |                      |                       | 9                | 431.05                                       |  | 433.US        |

| Docket        | Application | Patent  | Ċ                            | Country         | Application | Grant     | Ë                         |
|---------------|-------------|---------|------------------------------|-----------------|-------------|-----------|---------------------------|
| Number        | Number      | Number  | Owner                        | Name            | Date        | Date      | age                       |
|               |             |         |                              |                 |             |           | System and Method for the |
| •             |             |         |                              |                 |             |           | Ose of Digital infamic    |
|               |             |         |                              |                 |             |           | Motivate for Transmission |
| 2112          | 00/479068   |         | AT&T Wireless                | United States   | 07-Jan-00   |           | of R-Data Packets         |
| 20:101        | 2000        |         |                              |                 |             |           | System and Method for     |
|               | 2           |         |                              |                 |             |           | Adjusting the Traffic     |
| 439.US        | 09/489152   | 6675211 | AT&T Wireless                | United States   | 21-Jan-00   | 06-Jan-04 | Carried by a Network      |
|               |             |         |                              |                 |             |           | System and Method for     |
|               |             |         |                              |                 | •           |           | Adjusting the Traffic     |
| 439.US.C1     | 975473      |         | AT&T Wireless                | United States   | 03-Dec-03   |           | Carried by a Network      |
| ٠             |             |         |                              |                 |             | •         | Filtered In-Box for Voice |
|               | -           |         |                              |                 |             |           | Mail, E-Mail, Pages, Web- |
| 340118        | 00/36763    |         | AT&T Mileston                | 1 Inited Ctates | 31_610_00   | 30.500.03 | Based Information, and    |
| 440.00        | 03/300/02   | 9070134 | A G WIEGES                   | OIIIIGO OIGIGO  | 66-Anv-10   | 30-35p-03 | Cilipand In Day for Value |
|               |             |         |                              |                 |             |           | Mail E Mail Door Woh      |
|               |             |         |                              |                 |             |           | Based Information, and    |
| 440.US.C1     | 10/644641   | -       | AT&T Wireless                | United States   | 19-Aug-03   | •         | Faxes                     |
|               |             |         |                              |                 |             |           | Wireless Adaptor and      |
|               |             |         |                              |                 |             |           | Wireless Financial        |
| 442.US.D2     | 08/647299   | 5991410 | AT&T Wireless                | United States   | 09-May-96   | 23-Nov-99 | Transaction System        |
|               |             |         |                              | •               |             |           | Method and Apparatus for  |
|               |             |         |                              |                 |             |           | Providing Enhanced        |
| 311 677       | 00/00/0040  |         | A TO T IANILLA LA CONTRACTOR | 1 Inited Ctates | 12 Mar 01   |           | Services at a Mobile      |
| 443.03        | 09/802672   |         | Alai Wireless                | Ollieu Oldico   | 10-INI-71   |           | Communication Device      |
|               |             |         |                              |                 |             |           | Method and Apparatus for  |
|               |             |         |                              |                 |             |           | Wireless Data Services    |
| 5118          | 09/427417   | 6584321 | ATRT Wireless                | United States   | 27-Oct-99   | 24-Jun-03 | Service                   |
|               |             |         |                              |                 |             |           | Method and Apparatus for  |
|               |             |         |                              |                 |             |           | Wireless Data Services    |
|               | •           |         |                              |                 | •           | ,         | Over a Selected Bearer    |
| 444.US.C1     | -454817     |         | AT&T Wireless                | United States   | 10-Jun-03   |           | Service                   |
|               |             |         |                              |                 | ·           | •         | System and Method for     |
|               |             | •       |                              |                 |             |           | Colloox-Capable Wileless  |
| 445.US        | 2026245     |         | AT&T Wireless                | United States   | 17-Jun-99   |           | Iransmission              |
|               |             | •       |                              | •               |             |           | Method for Contacting a   |
| 446 BR        | 147314      |         | AT&T Wireless                | Brazil          | 04-101-00   |           | Wireless Bearer Services  |
| 10.01         | 1011        |         | 2000                         |                 |             |           | Method for Contacting a   |
|               |             |         |                              |                 |             |           | Subscriber to Multiple    |
| 446.CA        | 2313647     |         | AT&T Wireless                | Canada          | 02-Jul-00   |           | Wireless Bearer Services  |
| -<br> -<br> - |             |         |                              |                 |             |           |                           |

|                     |  | _                       |  | ι.                      |                        |                          |                           | 1                         | _             |                        | Т             |                        | _             | _                        | <u>.                                    </u> |                    | $\neg$       | _                        |                        |                        |                    | Т                        |                        | <u> </u>               |                    | Τ             |                          |                        |                    |        |                          | ••                     | _                  |                 |
|---------------------|--|-------------------------|--|-------------------------|------------------------|--------------------------|---------------------------|---------------------------|---------------|------------------------|---------------|------------------------|---------------|--------------------------|--|--------------------|--------------|--------------------------|------------------------|------------------------|--------------------|--------------------------|------------------------|------------------------|--------------------|---------------|--------------------------|------------------------|--------------------|--------|--------------------------|------------------------|--------------------|-----------------|
| Title               | Method for Contacting a Subscriber to Multiple | Method for Contacting a | Subscriber to Multiple<br>Wireless Bearer Services | Method for Contacting a | Subscriber to Multiple | Wireless Bearer Services | Antenna Support Structure | Antenna Support Structure | (design)      | ISUP Talkpath to an IP | Talkpath      | ISUP Talkpath to an IP | Talkpath      | Method for Automatically | Telephone With a Voice                       | Mail System Access | Number       | Method for Automatically | Programming a Wireless | Telephone With a Voice | Mail System Access | Method for Automatically | Programming a Wireless | Telephone With a Voice | Mail System Access | Number        | Method for Automatically | Programming a wireless | Mail System Access | Number | Method for Automatically | Programming a Wireless | Mail System Access |                 |
| Grant<br>Date       |  |                         |  |                         |                        | 12-Nov-02                | 19,8425,07                | 200                       | 22-Sep-98     |                        | 10-Aug-04     |                        |               |                          |  |                    |              |                          |                        | ·                      |                    |                          |                        |                        | ,                  |               |                          |                        | •                  |        |                          | •=                     |                    |                 |
| Application<br>Date | ×  | 03-Jul-00               | 00 7:1   | 07-101-10               |                        | 14-Jul-99                | 30 4                      | 01-Jun-93                 | 13-Sep-95     |                        | 11-Feb-00     |                        | 02-Mar-04     |                          |  |                    | 22-Mav-00    |                          |                        |                        |                    | 24-May-00                |                        |                        | ٠                  | 04-Apr-00     |                          |                        |                    | 00 000 | 23-WBY-00                |                        | . 0                | טב-ווויס-אט     |
| Country             | European Patent                                | Convention              |  | Japan                   |                        | United States            |                           | United States             | United States |                        | United States |                        | United States |                          | •  |                    | Brazil       | Diagn                    |                        |                        |                    | Canada                   | •                      |                        | European Patent    | Convention    |                          |                        |                    |        | Japan                    |                        | 2                  | South Rorea     |
|                     |  | AT&T Wireless           |  | AT&T Wireless           |                        | AT&T Wireless            |                           | AT&T Wireless             | AT&T Wireless |                        | AT&T Wireless |                        | AT&T Wireless |                          |  |                    | 4401-141-141 | AI&I WIREIESS            |                        |                        |                    | AT&T Wireless            |                        |                        |                    | ATOTIMireless | Alai Wiididaa            |                        | 72                 |        | AT&T Wireless            |                        | ٠.                 | AT&T Wireless   |
| Patent              | Number   |                         |  |                         |                        | 00100                    | 0400720                   | 5611176                   | D398612       |                        | 6775270       |                        |               | € .                      |  |                    |              |                          |                        |                        | •                  |                          |                        |                        |                    |               |                          |                        |                    |        |                          | -                      |                    |                 |
| Application         | Number   | 305600.9                |  | 2000-207053             |                        |                          | 09/353241                 | 457161                    | 43471         |                        | 09/528980     |                        |               | 63506/                   |  |                    |              | 213517                   |                        |                        |                    | 23/04/06                 | 20000                  |                        |                    |               | 302848.7                 |                        |                    |        | 2000-157517              |                        |                    | 10-2000-0030359 |
| Docket              | Number   | 446.EPC                 |  | 446 JP                  |                        |                          | 446.US                    | 447.US                    | 448 LIC       |                        | 10 011 197    | 13:03:01               |               | 451.US.C1(1)             |  | -                  |              | 452.BR                   |                        |                        |                    | 163 CA                   | 432.CA                 |                        |                    |               | 452.EPC                  |                        |                    |        | 452.JP                   |                        |                    | 452.KR          |

|                       |        |  | T  | - 1   |                                 |  |   |                        |   |   | _                             | _   | $\neg$                           |
|-----------------------|--------|--|--|---|---------------------------------|--|---|------------------------|---|---|-------------------------------|---|----------------------------------|
| Title                 | Number | Method for Automatically<br>Programming a Wireless<br>Telephone With a Voice<br>Mail System Access | Method for Automatically<br>Programming a Wireless<br>Telephone With a Voice<br>Mail System Access<br>Number | Aircraft Data Communications Services for Users | Aircraft Data Services          | System and Method for<br>Communication Between<br>Airborne and Ground-<br>Based Entitles | Aircraft Data Communications Services for Users | Aircraft Data Services | Method and Apparatus for Data Communication Utilizing the North American Terrestrial System | Method of Apparatus for Use in Forwarding Calls Intended for Roaming Subscriber Units | Floating Intrusion Detection  | Floating Intrusion Detection<br>Platforms | E-Mail Usage Pattem<br>Detection |
| Grant<br>Date         |        | 12-Apr-02  | 24-Dec-02  |   |                                 | 06-Jul-04  |   |                        |   |   |                               |   | 14~Jan-03                        |
| Application<br>Date   |        | 99-Mav-00  | 02-Jun-99  | 19-Jun-02                                       | 19-Jun-02                       | 14-May-99  | 19-Jun-01                                       | 19-Jun-01              | 08-Apr-04   | 30-Dec-99   | 22-May-01                     | 30-May-00                                 | 19-Jul-99                        |
| . Country<br>Name     |        | Taiwan   | United States  | Patent<br>Cooperation<br>Treaty                 | Patent<br>Cooperation<br>Treatv | United States  | United States                                   | United States          | United States   | United States   | European Patent<br>Convention | United States                             | United States                    |
| Owner                 |        | ATRT Wireless  | AT&T Wireless  | AT&T Wireless                                   | AT&T Wireless                   | AT&T Wireless  | AT&T Wireless                                   | AT&T Wireless          | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                 | AT&T Wireless                             | AT&T Wireless                    |
| Patent<br>Number      |        | 976046   | 6498930  |   |                                 | A7A077R  |   |                        |   |   |                               |   | 6507866                          |
| Application<br>Number |        | 0000   | 09/324486  | PCT/US02/19336                                  | DCT// ISO2/40337                | 00/312014  | 09/884724                                       | 09/884730              | 770070  | 00/476461   | 1304403 B                     | 09/580689                                 | 09/356974                        |
| Docket                |        | or car   |  | P   | 454 PCT CP2                     |  | 454 US CP1                                      | 454 US CP2             |   | 455 IS  | 450 EDC                       | 450118                                    | 463.US                           |

| Application | Patent  | C                                       | Country         | Application<br>Date | Oate      | Title                     |
|-------------|---------|---|-----------------|---------------------|-----------|---------------------------|
| Number      | Number  | OMIGI                                   |                 |                     |           | Testing Methods and       |
|             |         | 400000000000000000000000000000000000000 | 1 Inited States | 28-Nov-00           | •         | Communications            |
|             |         | AI & I WITEIESS                         | $\dagger$       |                     |           | Monitoring Network        |
|             |         |   |                 |                     | •         | Performance Using         |
|             |         |   |                 |                     |           | Individual Cell Phone     |
|             | •       |   |                 |                     |           | Location & Performance    |
| _           |         | AT&T Wireless                           | United States   | 21-Dec-00           |           | Information               |
| 03/143200   |         |   | T               |                     |           | Method and Apparatus for  |
|             |         |   |                 |                     |           | Use in Providing a        |
|             |         |   |                 |                     |           | Discounted Call Rate for  |
|             | •       | ATP Mireles                             | Canada          | 02-Aug-00           |           | Wireless Communications   |
| 2314855     |         | Alai wireless                           |                 |                     |           | Method and Apparatus for  |
|             |         |   |                 |                     |           | Use in Providing a        |
|             |         |   | Furnhean Patent | •                   |           | Discounted Call Rate for  |
|             |         | ATET Wireless                           | Convention      | 02-Aug-00           |           | Wireless Communications   |
| 6./61911    |         | 2000                                    |                 |                     |           | Method and Apparatus for  |
|             | •       |   |                 |                     |           | Use in Providing a        |
|             |         |   |                 |                     |           | Discounted Call Rate for  |
| 3 50000     |         | AT&T Wireless                           | Hong Kong       | 21-Dec-01           |           | Wireless Communications   |
| 2:000       |         |   |                 |                     |           | Method and Apparatus for  |
| •           | •       |   |                 | -                   |           | Ose in Providing a        |
|             | -       |   |                 |                     |           | Misology Comminications   |
| 2000-238722 |         | AT&T Wireless                           | Japan           | U/-Aug-uu           |           | Western and Apparatus for |
|             |         |   |                 | •                   |           | Memod and Apparatus for   |
|             |         | *                                       | •               | •                   |           | Ose in Providing a        |
|             |         |   |                 |                     | 20 00     | Viscounted Call Nate 101  |
| 09/557381   | 6640096 | AT&T Wireless                           | United States   | 25-Apr-00           | 28-Oct-03 | Wireless Communications   |
|             |         |   | ·               |                     |           | Method for Registering    |
|             | •       |   |                 |                     |           | With a Communication      |
| 143330      |         | AT&T Wireless                           | Brazil          | 05-May-00           |           | Service                   |
| 253         |         |   |                 |                     |           | Method for Registering    |
|             |         |   | ·               |                     |           | With a Communication      |
| 7305971     | 2305971 | AT&T Wireless                           | Canada          | 19-Apr-00           | 16-Mar-04 | Service                   |
|             |         |   |                 |                     |           | Method for Registering    |
| •           |         |   | European Patent |                     | •         | With a Communication      |
|             | •       | ATRT Wireless                           | Convention      | 13-Mar-00           |           | Service                   |
| 20.0        |         |   |                 |                     |           | Method for Registering    |
|             | :       |   |                 | •                   |           | With a Communication      |
| 2000-127609 | ٠       | AT&T Wireless                           | Japan           | 27-Apr-00           |           | Service                   |
| 2003        |         |   |                 |                     |           | Method for Registering    |
|             | •       |   |                 |                     |           | With a Communication      |
|             |         | AT&T Wireless                           | Taiwan          | 01-May-00           |           | Service                   |

| Title               | Method for Registering<br>With a Communication<br>Service | Method for Registering<br>With a Communication<br>Service | Application of TCAP<br>Criteria in SCCP Routing | System and Method of<br>Using Local Number<br>Portability (LNP) to<br>Redirect Terminating Calls<br>to a Service Node | Attribute Rule Enforcer for a Directory | Attribute Rule Enforcer for a Directory | Methods and Systems for Communicating and Controlling Facsimile Information | Methods and Systems for Communicating and Controlling Facsimile Information | Methods and Systems for Communicating and Controlling Facsimile Information | Methods and Systems for Communicating and Controlling Facsimile Information | Method of Sharing<br>Revenue for Transmission<br>of Wireless Data From a<br>Vehicle | A Method of Sharing<br>Revenue for Transmission<br>of Wireless Data From a |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|--|
| Grant<br>Date       |   | Method<br>With a C<br>Service                             | Applic<br>10-Jun-03 Criter                      |   | Attrib.<br>a Dire                       | Attribu a Dire                          | Metho<br>Comm<br>Contr  | Metho<br>Comr<br>Contr  | Metho<br>Comr<br>Contr  | Metho<br>Comr<br>Contr  | Method Revenue of Wirele Vehicle  | A Me<br>Reve<br>of Wi  |
| Application<br>Date | 07-May-99   | 14-Jul-04   | 13-Jul-00                                       | 00-un(20  | 31-Jul-02                               | 01-Aug-01                               | 20-Dec-01   | 20-Dec-01   | 21-Dec-00   | 17-Sep-04   | 18-Oct-01   |  |
| Country             | United States   | United States   | United States                                   | United States   | Patent<br>Cooperation<br>Treaty         | United States                           | Canada  | Patent<br>Cooperation<br>Treaty   | United States   | United States   | Amentina  | Patent<br>Cooperation  |
| Owner               | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                                   | AT&T Wireless   | AT&T Wireless                           | AT&T Wireless                           | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   |  |
| Patent              |   |   | 6577723   |   |   | ·                                       | ·   |   |   |   |   |  |
| Application         | 09/306761   | 10/890298   | 09/615485                                       | -176167   | PCT/US02/21308                          | 588650                                  | 2463700   | PCT/US01/49729  | 09/745209   | halian  | 010400R   | 00000  |
| Docket              | 475 US  | 475 US.C1   | 481.US  | 483.US  | 488.PCT                                 | 488.US                                  | 490 CA  | 490 PCT   | 490 US  | 700118  | 94 104  |  |

| Patent   |         |             |        |               |                | Amplication | Grant            |                            |
|--|---------|-------------|--------|---------------|----------------|-------------|------------------|----------------------------|
| Number   Number   Owner   Name   Na   | Docket  | Application | Patent |               | Country        | Application | Date             | Title                      |
| 2578856  2578856  2578856  2578856  2578856  2578856  2577309  255 | Number  | Number      | Number | Owner         | Name           |             |                  | Method of Sharing          |
| 2206-2001  |         |             |        | -             |                |             |                  | of Wireless Data From a    |
| 2578658   AT&TWireless   United States   20-Dec-99   Properties   20-   |         | 2206,2001   |        | AT&T Wireless | 1              | 8-Oct-01    |                  | System and Method for      |
| 2557308  2557308  AT&T Wireless  United States  20-Dec-99  AT&T Wireless  United States  16-Oct-00  United States  16-Oct-00  United States  10-May-01  AT&T Wireless  Convention  AT&T Wireless  Convention  AT&T Wireless  Convention  AT&T Wireless  Convention   | 91.72   | 7700-5001   |        |               |                |             |                  | Automatically Transferring |
| 2557308  AT&T Wineless United States 20-Dec-99 For Property Proper | •       | •           |        |               |                |             |                  | a Call From a Filst        |
| 2578658  | •       |             |        |               |                |             |                  | Telephone in Close         |
| 2578658  |         | -           |        |               |                | 00.00       |                  | Proximity                  |
| 2557308  |         | 2579859     |        | AT&T Wireless | †              | 70-Dec-23   |                  | System and Method for      |
| AT&TWINELESS   United States   20-Dec-99   The Property of t   | 493.US  | 0000107     |        |               |                |             |                  | Using a Short-Range        |
| 2557308  2557308  AT&T Wireless  United States  20-Dec-99  No. 10  |         |             |        |               |                |             |                  | Radio Link to Directly     |
| 2557308  |         |             |        |               |                |             | ,                | Communicate between        |
| 2557308   AT&T Wireless   United States   20-Dec-99   Transmitted States   16-Oct-00   Transmitted States   16-Oct-00   Transmitted States   18-Dec-00   Transmitted States   18-Dec-00   Transmitted States   18-Dec-00   Transmitted States    |         |             |        |               |                |             |                  | Through a                  |
| 2557308  |         |             | •      |               |                |             |                  | Primary Communications     |
| 2557308  |         |             |        |               | Soft Chatter   | 20-Dec-99   |                  | Network                    |
| S   S   S   S   S   S   S   S   S   S  | 3118    | 2557308     |        | AT&T Wireless | United States  | 22.22.22    |                  | Telematics Services        |
| 09/739044   AT&T Wireless   United States   16-Oct-00   M  | 484.00  |             |        |               |                |             |                  | System Using Venicle       |
| 09/688401   AT&T Wireless   United States   18-Oct-000   U U U U U U U U U U U U U U U U U   |         |             |        |               |                |             |                  | I/O Finctions              |
| USJ0808401         AT&T Wireless         United States         18-Dec-00         United States           311432         AT&T Wireless         United States         28-Nov-00         Nover Nove Nove Nove Nove Nove Nove Nove Nove  |         |             |        | AT&T Wireless | United States  | 16-Oct-00   |                  | Methods and Systems for    |
| 1432   18-Dec-00   10   10   10   10   10   10   10  | 497.US  | 09/688401   |        |               |                |             |                  | Using Network Capabilities |
| 311432   AT&T Wireless   United States   28-Nov-00   A   |         |             |        | ,             | thitod Chaffee | 18-Dec-00   |                  | to Correct Phone Displays  |
| 311432 AT&T Wireless United States 28-Nov-00 N N AT&T Wireless United States 10-May-01 N N AT&T Wireless United States 07-Nov-00 European Patent European Patent Convention 03-May-02 Convention Ga-May-02 Convention Ga-May-02 AT&T Wireless Convention Ga-May-02 AT | 311807  | 09/739044   |        | AT&T Wireless | United States  |             |                  | Multiple Handset Cradle    |
| 311432 AT&T Wireless Onited States 10-May-01  226747 AT&T Wireless United States 10-May-01  9 09/707671 AT&T Wireless United States 01-Nov-00  European Patent Convention 03-May-02  Convention 03-May-02  | 480.03  |             |        |               | United States  | 28-Nov-00   |                  | Assembly                   |
| 266747 AT&T Wireless United States 10-May-01 V V V V V V V V V V V V V V V V V V V   | S11007  | 311432      |        | AT&T WIREIESS | 00000          |             | <del>  -:-</del> | Methods and Systems to     |
| 266747 AT&T Wireless United States 10-May-01 09/707671 AT&T Wireless United States 07-Nov-00 09/703858 AT&T Wireless United States 01-Nov-00 European Patent European Patent Convention 03-May-02  | 493.00  |             |        |               |                | •           |                  | Audio Distribution Over    |
| 266747 AT&T Wireless United States 10-May-01 09/707671 AT&T Wireless United States 07-Nov-00 09/703858 AT&T Wireless United States 01-Nov-00 European Patent European Patent 03-May-02 Convention 03-May-02  |         |             |        | -             |                |             |                  | Telecommunications         |
| 266747   AT&T Wireless   United States   10-May-21   Properties   10-May-21   Properties   10-May-21   Properties   10-May-12   Properties   10-May-13   Properties   10-May-14   Properties   10-May-14   Properties   10-May-14   Properties   10-May-14   Properties   10-May-14   Properties   10-May-15   Properties   10-   |         |             | •      |               |                | 10 1010     |                  | Wiring                     |
| 09/707671 AT&T Wireless United States 07-Nov-00 AT&T Wireless United States 01-Nov-00 European Patent AT&T Wireless Convention 03-May-02   | 9       | 766747      | • 35   | AT&T Wireless | United States  | 10-May-01   | <br> <br> <br> - | Activation and Remote      |
| 09/707671         AT&T Wireless         United States         07-Nov-00           09/703858         AT&T Wireless         United States         01-Nov-00           C         2734147.8         AT&T Wireless         Convention         03-May-02   | 501.US  | 75,007-     |        |               |                |             |                  | Modification of Wireless   |
| 09/707671         AT&T Wireless         United States         07-Nov-00           09/703858         AT&T Wireless         United States         01-Nov-00           European Patent         European Patent         03-May-02  |         | •           |        |               |                |             |                  | Network Context            |
| 09/703858  |         |             |        | AT&T Wireless | United States  | 07-Nov-00   |                  | A Method for Programming   |
| 09/703858 AT&T Wireless United States 01-Nov-00 European Patent Convention 03-May-02   | 503.US  | 09/707671   |        |               |                |             |                  | a Mobile Station Using a   |
| 09/703858  |         |             |        |               |                |             |                  | Permanent Mobile Station   |
| 09/703858 AT&T Wireless United States Office |         |             |        | •             |                | 01_Nov_00   | ٠                | Identifier                 |
| European Patent AT&T Wireless Convention 03-May-02   | 504.US  | 09/703858   |        | AT&T Wireless | United States  |             |                  | Method and Apparatus for   |
| 2734147.8 AT&T Wireless Convention 03-May-02   |         |             |        |               |                | _           |                  | Alert Messaging for Audio  |
| 2734147.8 AT&I WIREIESS CONTROLLES   |         |             |        |               | Convention     | 03-May-02   |                  | Alerting Capable Terminals |
|  | 506.EPC | 2734147.8   |        | AT&T WIREIESS | COLLECTION     |             | ·•               |                            |

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|-----------------------|--|--|--|--|--|---|--|--|---|---|---|
| Title                 | Method and Apparatus for Providing Personal Audio Alert Messaging for Audio Alerting Capable Terminals | Personal Audio Alert<br>Message for Audio Alerting<br>Capable Terminal | Method and Apparatus for Providing Interactive Text Messages During a Voice Call | Method and Systems for<br>Managing Customizable<br>Content on Wireless Data<br>Devices | Method and Systems for<br>Managing Customizable<br>Content on Wireless Data<br>Devices | Methods and Systems for Managing Information on Wireless Data Devices | Using Wireless Cookies to<br>Deliver Network-Based<br>Location Information | Using Wireless Cookles to Deliver Network-Based Location Information | System and Method of<br>Providing Public Voicemail<br>Service to Private Network<br>Subscribers | System and Method for Using a Temporary Electronic Serial Number for Over-the-Air Activation of a Mobile Device | System and Method for Using a Temporary Electronic Serial Number for Over-the-Air Activation of a Mobile Device |
| Grant<br>Date         |  |  | . ·  |  |  | 05-Aug-03   | ·  | ·  |   |   |   |
| Application<br>Date   | 03-May-02  | 06-Jul-01  | 31-Jul-01  | 16-May-01  | 16-May-01  | 14-May-01   | 12-Jun-02  | 12-Jun-01  | 30-May-01   | 05-Nov-01   | 07-Nov-01   |
| Country<br>Name       | Patent<br>Cooperation<br>Treaty  | United States  | United States  | European Patent<br>Convention  | Japan  | United States   | Patent<br>Cooperation<br>Treaty  | United States  | United States   | Argentina   | Brazil  |
| Owner                 | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   |
| Patent<br>Number      |  | ·  |  |  |  | 6603984   |  |  | ·   |   | -   |
| Application<br>Number | PCT/US02/13904   | 09/899956  | -577934  | 1111280.2  | 2001-146263  | 372427  | PCT/US02/18611   | 09/879351  | 09/867989   | 10105179  | P10105120-2   |
| Docket<br>Number      | 506.PCT  | 508.US   | 507.US   | 513.EPC  | 513.JP   | 513.US  | 517.PCT  | 517.US   | 519.US  | 520.AR  | 520.BR  |

|           |                  |          |                  |                 |             |              | • •                          |        |
|-----------|------------------|----------|------------------|-----------------|-------------|--------------|------------------------------|--------|
|           | a citation A     | Datent   |                  | Country         | Application | Grant        |                              |        |
| Docket    | Application      | T dicili | Owner            | Name            | Date        | Date         | 2011                         |        |
| Number    | Number           | Number   | OWIG             |                 |             |              | System and Method for        |        |
|           |                  |          |                  |                 |             |              | Using a Temporary            |        |
|           |                  |          |                  |                 |             |              | for Over-the-Air Activation  |        |
|           | <u>.</u>         |          |                  |                 |             |              | of a Mobile Device           |        |
| - V       | 2358175          |          | AT&T Wireless    | Canada          | 03-001-01   |              | System and Method for        |        |
| 20.02     | 2                |          |                  |                 | -           |              | Using a Temporary            |        |
|           |                  |          |                  |                 |             |              | Electronic Serial Number     |        |
|           |                  |          |                  | Franco Dotont   |             |              | for Over-the-Air Activation  |        |
|           |                  |          |                  | European Falcin | 10-vov-01   |              | of a Mobile Device           |        |
| מט עם     | 19941913         |          | AT&T Wireless    | Convention      | 2000        |              | System and Method for        |        |
| ZZO.ET.C  | 0:10110          |          |                  |                 |             |              | Using a Temporary            | ٠.     |
|           | ·                |          |                  |                 |             |              | Electronic Serial Number     |        |
|           |                  |          |                  |                 | •           |              | for Over-the-Air Activation  | •      |
| _         |                  |          |                  | 6               | 07-Nov-01   |              | of a Mobile Device           | _      |
| 520 JP    | 2002-558719      |          | AT&T Wireless    | Japan           |             |              | System and Method for        |        |
| 1         |                  |          |                  |                 |             |              | Using a Temporary            |        |
|           |                  |          |                  |                 |             |              | Electronic Serial Number     |        |
|           |                  |          |                  |                 |             |              | for Over-the-Air Activation  |        |
|           |                  | :        |                  | Movino          | 01-Nov-01   |              | of a Mobile Device           | _      |
| SOU MX    | PA/a/2001/011175 |          | AT&T Wireless    | MEXICO          |             |              | System and Method for        |        |
| 250:020   |                  |          | · .              |                 |             |              | Using a Temporary            |        |
|           |                  |          | •                | Patent          | ٠           |              | Electronic Serial Number     |        |
|           |                  |          |                  | Cooperation     |             |              | for Over-the-Air Activation  |        |
|           |                  |          |                  | Treaty          | 07-Nov-01   |              | of a Mobile Device           | -      |
| 520,PCT   | PCT/US01/47711   |          | Alai Wireless    | 11001           |             |              | System and Method for        |        |
|           |                  |          |                  |                 |             |              | Using a Temporary            |        |
|           |                  |          |                  | •               |             |              | Electronic Serial Number     |        |
|           |                  | •        |                  |                 |             |              | for Over-the-Air Activation  |        |
| •         |                  |          | - Coolesias Fore | United States   | 07-Nov-00   | 08-Jul-03    | of a Mobile Device           | ·<br>T |
| 520.US    | 09/707593        | 6591098  | AIGI WIEEESS     |                 |             |              | System and Memod for         |        |
|           | · ·              |          |                  | •               | •••         |              | Using a Temporary            |        |
|           |                  |          |                  |                 |             |              | for Over-the-Air Activation  |        |
| 1         |                  |          |                  |                 | 00          |              | of a Mobile Device           | _      |
|           | 40/400770        |          | AT&T Wireless    | United States   | 08-Apr-03   |              | System and Method for        | _      |
| 520.US.C1 | 10/403/70        |          |                  |                 |             |              | Using a Temporary            | _      |
|           | •                |          | ٠.               |                 |             |              | Electronic Serial Number     |        |
|           |                  | -        |                  |                 | •           |              | for Over-the-Air Activation  |        |
|           |                  |          |                  | 10.15050        | 05-Nov-01   | ,.           | of a Mobile Device           | Т      |
| 520 1/7   | 2001-002318      |          | AT&T Wireless    | Veriezucia      |             |              | 1 Islan a Wireless Cookle to | _      |
| 350:45    |                  |          |                  | Patent          |             |              | Deliver Mobile-Based         |        |
|           |                  |          |                  | Cooperation     | 42, hip.02  |              | Location information         | ٦      |
| 525 PCT   | PCT/US02/18612   |          | AT&T Wireless    | Ireary          | ic voice    | <br> -<br> - |                              |        |
| 10,100    |                  |          | ٠.               |                 |             |              |                              |        |

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| AT&T Wireless    |
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| AT&T Wireless    |

| cet         Application         Patent Number         Country Name           ber         Number         Number         Name           1987994.9         European Patent Convention         Patent Cooperation         Patent Cooperation           100891798         6751475         AT&T Wireless         United States         United States           C2         mailed         AT&T Wireless         United States         Cooperation           CP1         100885427         AT&T Wireless         United States         Cooperation           T         AT&T Wireless         Venezuela           P         AT&T Wireless         Venezuela           T         AT&T Wireless         Treaty   |          | Name                                  | Application | 5 1       |   |
|---|----------|---------------------------------------|-------------|-----------|---|
| 1987994.9   AT&T Wireless   European Patent   19-Ma   | <u> </u> |                                       | Date        | Date      | Title   |
| 1987994.9   AT&T Wireless   Convention   1987994.9   Patent   Cooperation   1987994.9   Convention   1987994.9   Convention   1987994.9   AT&T Wireless   Treaty   Treaty |          |                                       |             |           | Wireless Data From a<br>Vehicle                 |
| 1987994.9   AT&T Wireless   Convention   11   |          |                                       |             |           | Apparatus and Method for                        |
| 1987994.9   European Patent   European Patent   1987994.9   Patent   Convention   1   |          |                                       |             |           | Monitoring a Wireless                           |
| 1987994.9   AT&T Wireless   Convention   11987994.9   Patent  | <u></u>  | Juopean Patent                        |             |           | Device Associated With a                        |
| Patent Cooperation   1  |          | onvention                             | 19-May-03   |           | Venicie   |
| C1 10/862773 AT&T Wireless United States 1  C2 malled C2  CP1 10/862773 AT&T Wireless United States 0  CP1 10/862773 AT&T Wireless United States 0  CP1 10/885427 AT&T Wireless United States 0  CP1 10/885427 AT&T Wireless Venezuela  CP1 TAXT Wireless Venezuela  CP1 TAXT Wireless Venezuela  COOpération  AT&T Wireless Treaty  Treaty   |          |                                       |             |           | Shared-Revenue Billing                          |
| PCT/US01/50164   AT&I Wireless   Cooperation   1  | <u>.</u> | atent                                 |             |           | System for Transmission of                      |
| PCT/US01/50164   AT&T Wireless   Treaty   1   | -        | ooperation                            |             | •         | Wireless Data from a                            |
| C1 10/862773 AT&T Wireless United States 1  C2 mailed   |          | reaty                                 | 19-Oct-01   |           | Venicle   |
| C1 10/862773 AT&T Wireless United States 1  C2 mailed   |          |                                       |             |           | Shared-Kevenue Billing                          |
| C1 10/862773 6751475 AT&T Wireless United States 1  C2 mailed   |          |                                       |             |           | System for Transmission of Wireless Data from a |
| C1 10/862773 AT&T Wireless United States 0 C2 mailed AT&T Wireless United States 0 C2 mailed AT&T Wireless United States 0 C205-2001 AT&T Wireless Venezuela C205-2001 AT&T Wireless Venezuela C205-2001 AT&T Wireless Treaty Caopération C1 PCT/US02/21073 AT&T Wireless Treaty  | _        | nited States                          | 19-Oct-00   | 15-Jun-04 | Vehicle   |
| 10/862773 AT&T Wireless United States 0 mailed AT&T Wireless United States 0 10/885427 AT&T Wireless United States 0 2205-2001 AT&T Wireless Venezuela Patent Cooperation PCT/US02/21073 AT&T Wireless Treaty   |          |                                       |             |           | Methods and Systems for                         |
| mailed AT&T Wireless United States 0  mailed AT&T Wireless United States 0  10/885427 AT&T Wireless United States 0  2205-2001 AT&T Wireless Venezuela  Cooperation PottAUS02/21073 AT&T Wireless Treaty  |          |                                       |             |           | Monitoring Data                                 |
| mailed MT&T Wireless United States 0  mailed AT&T Wireless United States 0  AT&T Wireless United States 0  2205-2001 AT&T Wireless Venezuela  Patent Cooperation PCT/US02/21073 AT&T Wireless Treaty  |          |                                       |             |           | Communication of a                              |
| mailed AT&T Wireless United States 0  7 10/885427 AT&T Wireless United States 0  2205-2001 AT&T Wireless Venezuela Patent Coopération PCTAUS02/21073 AT&T Wireless Treaty   |          |                                       |             |           | Wireless Device                                 |
| mailed AT&T Wireless United States 0  Tage T Wireless United States 0  AT&T Wireless United States 0  AT&T Wireless United States 0  AT&T Wireless Venezuela  AT&T Wireless Venezuela  Coopération  PottAUS02/21073 AT&T Wireless Treaty  |          |                                       |             |           | Associated with a Vehical                       |
| malled AT&T Wireless United States C 10/885427 AT&T Wireless United States ( 2205-2001 AT&T Wireless Venezuela Patent Cooperation PCT/US02/21073 AT&T Wireless Treaty   |          | Inited States                         | 07-Jun-04   |           | or Other Device                                 |
| mailed AT&T Wireless United States C  1 10/885427 AT&T Wireless United States C  2205-2001 AT&T Wireless Venezuela Petruso221073 AT&T Wireless Treaty   |          |                                       |             |           | Shared-Revenue Billing                          |
| mailed AT&T Wireless United States C  1 10/885427 AT&T Wireless United States C  2205-2001 AT&T Wireless Venezuela Petriuso221073 AT&T Wireless Treaty  |          | •                                     |             |           | System for Transmission of                      |
| mailed AT&T Wireless United States C  1 10/885427 AT&T Wireless United States C  2205-2001 AT&T Wireless Venezuela Patent Cooperation PCT/US02/21073 AT&T Wireless Treaty   |          | •                                     |             |           | Wireless Data from a                            |
| 1 10/885427 AT&T Wireless United States 0 2205-2001 AT&T Wireless Venezuela Patent Cooperation PCT/US02/21073 AT&T Wireless Treaty  |          | Inited States                         | 06-Jul-04   |           | Venicle   |
| CP1         10/885427         AT&T Wireless         United States         0           2205-2001         AT&T Wireless         Venezuela           T         PCTAUS02/21073         AT&T Wireless         Treaty   |          |                                       |             |           | Methods and Systems for                         |
| CP1         10/885427         AT&T Wireless         United States         0           2205-2001         AT&T Wireless         Venezuela           T         PCTAUS02/21073         AT&T Wireless         Treaty   |          |                                       |             |           | Monitoring Data                                 |
| CP1         10/885427         AT&T Wireless         United States         0           2205-2001         AT&T Wireless         Venezuela           T         PCTAUS02/21073         AT&T Wireless         Treaty   |          |                                       |             |           | Communication of a                              |
| CP1         10/885427         AT&T Wireless         United States         Venezuela           2205-2001         AT&T Wireless         Venezuela           T         PCT/US02/21073         AT&T Wireless         Treaty   |          |                                       |             | •         | Accordated with a Vehicle                       |
| 2205-2001 AT&T Wireless Venezuela  Patent Coopération T PCT/US02/21073 AT&T Wireless Treaty   |          | Juited States                         | 06-20I-04   |           | Charad Deventio Rilling                         |
| 2205-2001 AT&T Wireless Venezuela  Patent Coopération T PCT/US02/21073 AT&T Wireless Treaty   |          |                                       | ٠           |           | System for Transmission of                      |
| 2205-2001         AT&T Wireless         Venezuela           T         PCT/US02/21073         AT&T Wireless         Treaty   |          |                                       |             |           | Wireless Data From a                            |
| T PCT/US02/21073 AT&T Wireless Treaty   |          | /onerrela                             | 18-Oct-01   |           | Vehicle   |
| Patent Coopération PCT/US02/21073 AT&T Wireless Treaty  | 1        | o o o o o o o o o o o o o o o o o o o |             |           | Method and System for                           |
| Patent Coopération PCT/US02/21073 AT&T Wireless Treaty  |          |                                       |             |           | Audibly Announcing an                           |
| PCT/US02/21073 AT&T Wireless Treaty   |          | Satent                                |             |           | Indication of an Identity of                    |
| PCT/US02/21073 AT&T Wireless Treaty   |          | Coopération                           | -           |           | a Sender of a                                   |
| POTOSOMETINES.  |          | Freaty                                | 03-Jul-02   |           | Communication                                   |
|   |          |                                       |             |           | Method and System for                           |
|   |          | •                                     |             |           | Audibly Amounding an                            |
|   |          |                                       | • .         |           | Indication of an Identity of                    |
|   |          |                                       |             |           | a sender of a                                   |
| 532 US  |          | United States                         | 06-Jul-01   | Z7-May-03 | Communication                                   |

| ·           |        |   |  |                              | Γ                         |                   | -             |                           |                   |               |                           |                         | -              | Т                         |                         |                   | Т                         |                         |                   | _             |                     |                   | _                         | $\neg$             |                     |                   | _                         |                    |                     | _                          |                             |                        | Т                       |                    |                          |  |
|-------------|--------|---|--|------------------------------|---------------------------|-------------------|---------------|---------------------------|-------------------|---------------|---------------------------|-------------------------|----------------|---------------------------|-------------------------|-------------------|---------------------------|-------------------------|-------------------|---------------|---------------------|-------------------|---------------------------|--------------------|---------------------|-------------------|---------------------------|--------------------|---------------------|----------------------------|-----------------------------|------------------------|-------------------------|--------------------|--------------------------|--|
|             | Title  | Location Information Erase on SIM Cards | Prepaid Phone Service for<br>Both Wired and Wireless | Telecommunication<br>Devices | Prepaid Phone Service for | Telecommunication | Devices       | Prepaid Phone Service for | Telecommunication | Devices       | Prepaid Phone Service for | Both Wired and Wireless | Devices        | Prepaid Phone Service for | Both Wired and Wireless | Telecommunication | Prenaid Phone Service for | Both Wired and Wireless | Telecommunication | Devices       | Sharing of Wireless | Personal Wireless | Telephone and a Vehicular | Wirefess Telephone | Sharing of Wireless | Personal Wireless | Telephone and a Vehicular | Wireless Telephone | Intelligent Network | Selection Based on Quality | of Service and Applications | Over Unterent Wireless | Occupios Administration | and Maintenance of | Components in a Mobility |  |
| Grant       | Date   |   |  |                              |                           |                   |               |                           |                   | ·             |                           |                         |                |                           |                         | 04-Mar-03         | 20                        |                         |                   |               |                     |                   |                           |                    |                     |                   |                           |                    |                     |                            |                             |                        | 1                       | •                  |                          |  |
| Application | Date   | 21-Dec-00                               |  | 19-Dec-01                    |                           |                   | 20-Dec-01     |                           |                   | 21-Dec-01     |                           |                         | 21-Dec-01      |                           |                         | . 21-Dec-00       | 2000-13                   |                         |                   | 17-Dec-02     |                     |                   |                           | 03-Oct-01          | -                   | -                 |                           | 03-Oct-01          |                     |                            |                             |                        | 73-080-00               |                    | 15-Nov-01                |  |
| Country     | Name   | United States                           |  | Argentina                    |                           |                   | Chile         |                           | European Patent   | Convention    | Datont                    | Cooperation             | Treaty         |                           | •                       | United States     | OILICO Oraco              |                         | :                 | United States |                     | Patent            | Cooperation               | Treaty             |                     |                   |                           | United States      |                     |                            |                             | 11-11-11               | United States           | •                  | United States            |  |
|             | Owner  | AT&T Wireless                           |  | AT&T Wireless                |                           |                   | AT&T Wireless |                           |                   | AT&T Wireless |                           |                         | AT&T Wireless  |                           |                         | AT&T Wireless     | אוומומא                   | •                       |                   | AT&T Wireless |                     |                   |                           | AT&T Wireless      |                     |                   |                           | AT&T Wireless      |                     |                            |                             |                        | AT&T Wireless           |                    | AT&T Wireless            |  |
| Patent      | Number |   |  |                              |                           |                   |               |                           |                   |               |                           |                         |                |                           |                         | GEOOFOO           | 0063030                   |                         |                   |               |                     |                   |                           |                    |                     |                   |                           |                    |                     |                            |                             |                        |                         |                    |                          |  |
| Application | Number | 09/742313                               |  | 10105972                     |                           |                   | 3117-2001     |                           |                   | 1991484.5     |                           |                         | PCT/US01/49803 |                           |                         | 00/742024         | +767+160                  |                         |                   | 10/322218     |                     |                   |                           | PCT/US01/31205     |                     |                   |                           | 09/971080          | 200                 |                            |                             |                        | 09/752487               |                    | 2414133                  |  |
| Docket      | Number | 533.US                                  |  | 535.AR                       |                           |                   | 535.CL        |                           |                   | 535.EPC       |                           |                         | 535.PCT        |                           |                         | 235 110           | 200:000                   |                         |                   | 535.US.C1     |                     |                   | -                         | 536.PCT            |                     |                   |                           | 516115             | 2000                |                            |                             |                        | 539.US                  |                    | 540.US                   |  |

| Docket         Application         Patent         Country         Application         Date         Date         Title           Number         Number         Number         ATST Wireless         Canadia         22 Jan-03         Inter-Carlet Set Text           541.CA         241.028         ATST Wireless         Canadia         22 Jan-03         Inter-Carlet Set Text           541.LS         100547594         ATST Wireless         United States         17 Jan-03         Inter-Carlet Set Text           542.US         100247594         ATST Wireless         United States         17 Jan-03         Inter-Carlet Set Text           543.US         100247594         ATST Wireless         United States         17 Jan-03         Inter-Carlet Set Text           543.NC         100247594         ATST Wireless         Chile         20-Nov-01         Nove-01         Nove-01           543.NC         1002470         ATST Wireless         Convention         20-Nov-01         Nove-01         Nove-01         Nove-01           543.DC         15000000         ATST Wireless         United States         20-Nov-01         Nove-01  |          |   |         |               |   |                     |                   |  |     |
|--|----------|---|---------|---------------|---|---------------------|-------------------|--|-----|
| Number   Number   Owner   Ow | ocket    | Application                             | Patent  |               | Country                                 | Application<br>Date | Grant<br>Date     | Title  |     |
| 10106421   | umber    | Number                                  | Number  | Owner         | 2                                       |                     |                   | Network ·  |     |
| 101024833   101085491   1010404833   17-3an-03   1010605493   17-3an-03   1010024833   17-3an-03   1010024833   17-3an-03   1010024833   17-3an-03   1010024833   17-3an-03   1010024833   17-3an-03   1010065491   101005421   1010065491    |          |   |         |               |   |                     |                   | Inter-Carrier Sort Text                                | • • |
| 10734504   AT&TWireless   United States   17-Jan-63   Mm     101024833   |          | 2417028                                 |         | AT&T Wireless | Canada                                  | 22-Jan-03           | ŀ                 | Inter-Carrier Sort Text                                |     |
| 10105421   | 5        |   |         | AT&T Wireless | United States                           | 17-Jan-03           |                   | Message Delivery                                       |     |
| 10105421   | US       | 10/347504                               |         | Alai Wildias  | I Inited States                         | 19-Dec-01           | •                 | Quick SMS Reply  |     |
| 10105421   | US .     | 10/024833                               |         | AI&I WIREESS  | 200000000000000000000000000000000000000 |                     |                   | Methods and Systems for                                |     |
| 10105421   |          |   |         |               |   |                     |                   | Providing Application Level                            |     |
| 2920-2001  | 0        | 10105421                                |         | AT&T Wireless | Argentina                               | 20-Nov-01           |                   | Wireless Communication Methods and Systems for         |     |
| 1997932.7   AT&T Wireless   Chile   20-Nov-01   N   N   N     1997932.7   AT&T Wireless   Convention   20-Nov-01   N   N   N     1997932.7   AT&T Wireless   Convention   20-Nov-01   N   N   N     1596720   AT&T Wireless   United States   20-Nov-01   N   N   N     10/086192   AT&T Wireless   United States   27-Feb-02   N   N   N     2278535   AT&T Wireless   Canada   30-Jan-98   31-Dec-02   N   N   N   N     2515700   AT&T Wireless   Japan   30-Jan-98   O4-Mug-04   N   N   N   N   N   N   N   N   N   | {        |   |         |               |   |                     |                   | Providing Application Level<br>Presence Information in |     |
| 1997932.7   AT&T Wireless   European Patent   20-Nov-01   P   P  | į        |   | •       | AT&T Wireless | Chile                                   | 20-Nov-01           |                   | Wireless Communication                                 |     |
| 1997932.7   AT&T Wireless   Convention   20-Nov-01   Patent   Cooperation   Cooperation   Cooperation   Cooperation   Cooperation   Cooperation   Cooperation   Cooperation   Cooperation   1596720   AT&T Wireless   United States   20-Nov-01   Dec. 02  | J.       | 2820-2001                               |         |               | European Patent                         |                     | ,                 | Wireless Communication Presence Information            |     |
| Patent   Patent   Cooperation   Cooperation   Cooperation   Cooperation   Patent   Cooperation   Patent   Cooperation   Patent   Patent  | EPC      | 1997932.7                               |         | AT&T Wireless | Convention                              | 10-NON-02           |                   | Methods and Systems for                                | _   |
| PCT/US01/43228   |          |   |         |               | Patent<br>Conneration                   |                     |                   | Providing Application Level<br>Presence Information in |     |
| 1596720 10/086192 10/086192 10/085491 10/085491 2278535 278533 AT&T Wireless United States 20-Nov-01 VIITED States 27-Feb-02 Canada 30-Jan-98 31-Dec-02 European Patent 30-Jan-98 04-Aug-04 2515700 AT&T Wireless Japan 30-Jan-98 30-Jan-98  | 1        | 000000000000000000000000000000000000000 |         | AT&T Wireless | Treaty                                  | 20-Nov-01           |                   | Wireless Communication                                 | _   |
| 1596720         AT&T Wireless         United States         20-Nov-01         V           10/086192         AT&T Wireless         United States         27-Feb-02         E           10/085491         AT&T Wireless         United States         27-Feb-02         C           2278535         AT&T Wireless         Canada         30-Jan-98         31-Dec-02           C         98904768.3         956733         AT&T Wireless         Convention         30-Jan-98         04-Aug-04           AT&T Wireless         Japan         30-Jan-98         04-Aug-04  | PCI      | PC1/0301/43228                          |         |               |   |                     |                   | Providing Application Level Presence Information In    |     |
| 1596720  |          |   |         |               | United States                           | 20-Nov-01           |                   | Wireless Communication                                 | Т   |
| 10/086192         AT&T Wireless         United States         27-Feb-02           10/085491         AT&T Wireless         United States         27-Feb-02           2278535         AT&T Wireless         Canada         30-Jan-98         31-Dec-02           C         98904768.3         956733         AT&T Wireless         Convention         30-Jan-98         04-Aug-04           2515700         AT&T Wireless         Japan         30-Jan-98         30-Jan-98  | 3.US     | 1596720                                 |         | Al&I Wirefess |   |                     |                   | Electronic Surveillance Via                            |     |
| 10/085491         AT&T Wireless         United States         27-Feb-02           2278535         AT&T Wireless         Canada         30-Jan-98         31-Dec-02           C         98904768.3         956733         AT&T Wireless         Convention         30-Jan-98         04-Aug-04           2515700         AT&T Wireless         Japan         30-Jan-98         30-Jan-98  | <u> </u> | 10/086192                               |         | AT&T Wireless | United States                           | 27-Feb-02           |                   | Call Path Reduction Via                                | Г   |
| 10/085491         AT&T Wireless         United States         Canada         30-Jan-98         31-Dec-02           2278535         AT&T Wireless         Convention         30-Jan-98         04-Aug-04           C         98904768.3         956733         AT&T Wireless         Convention         30-Jan-98         04-Aug-04           2515700         AT&T Wireless         Japan         30-Jan-98         30-Jan-98   | 20.0     |   |         |               | 1 Inited States                         | 77-Feb-02           |                   | Correlation of Call Legs in a Hairpin Loop Scenario    |     |
| C 98904768.3 956733 AT&T Wireless Canada 30-Jan-98 31-Dec-02 C 98904768.3 956733 AT&T Wireless Convention 30-Jan-98 04-Aug-04 AT&T Wireless Japan 30-Jan-98  | 9.US     | 10/085491                               |         | AT&I Wireless | Ollifed Oraco                           |                     |                   | Wireless Corhmunications                               | _   |
| C 98904768.3 956733 AT&T Wireless Canada 30-Jan-98 31-Dec-02  European Patent Convention 30-Jan-98 04-Aug-04  AT&T Wireless Convention 30-Jan-98 04-Aug-04  AT&T Wireless Japan 30-Jan-98  |          | •                                       |         |               |   |                     |                   | Operation for Reducing                                 |     |
| C 98904768.3 956733 AT&T Wireless Convention 30-Jan-98 04-Aug-04 2515700 AT&T Wireless Japan 30-Jan-98   |          | 2278535                                 | 2278535 | AT&T Wireless | Canada                                  | 30-Jan-98           | 31-Dec-02         | Wireless Communications                                | Т   |
| 2515700 AT&T Wireless Convention 30-3411-50 CONGRESS CONVENTION 30-3411-50 CONGRESS Japan 30-Jan-98  | (S)      |   |         |               | European Patent                         |                     | 04-010-04         | System and Method of Operation for Reducing Fraud      |     |
| 2515700 AT&T Wireless Japan 30-Jan-98  | 0.EPC    | 98904768.3                              | 956733  | AT&T Wireless | Convention                              | 30-Jan-90           |                   | Wireless Communications                                |     |
| 2515700 AT&T Wireless Japan Jacobs   |          |   |         |               |   | 80                  | · .               | System and Meurop of Operation for Reducing Fraud      |     |
|  | 50.JP    | 2515700                                 |         | AT&T Wireless | Japan                                   | oc-dan-ac           | <br> -<br> <br> - |  |     |

|             |                                      |  | <del> </del>   |   |   |  |   | <u> </u>  | <del></del>   | <del></del>   |   | ·<br>  |
|-------------|--------------------------------------|--|--|---|---|--|---|---|---|---|---|--|
|             | ss C<br>n an                         | Wireless Communications<br>System and Method of<br>Operation for Reducing<br>Fraud | Wireless Communications<br>System and Method of<br>Operation for Reducing<br>Fraud | Real-Time Network<br>Analysis and Performance<br>Management | Real-Time Drive Network<br>Analysis and Performance<br>Management | A Method and Apparatus to<br>Manage a Resource | A Method and Apparatus to<br>Store, Access, and<br>Forward Messages | SACCH-Based Fast Power<br>Control for GERAN (GSM<br>Edge Radio Access<br>Network) | Hotline Routing of Pre-<br>Activated GSM<br>Subscribers Using Pseudo<br>MSISDNs | Hotline Routing of Pre-<br>Activated GSM<br>Subscribers Using Pseudo<br>MSISDNs | Hotline Routing of Pre-<br>Activated GSM<br>Subscribers Using Pseudo<br>MSISDNs | Hotline Routing of Pre-<br>Activated GSM<br>Subscribers Using Pseudo |
|             | Wireles<br>Systen<br>Operal<br>Fraud | Wireles<br>System<br>Operat<br>Fraud   | Wireles<br>Systen<br>Operat<br>Fraud   | Real-<br>Analy<br>Mana                                      | Real-<br>Analy<br>Mana  | A Mei<br>Mana                                  | A Me  | SACCH-B<br>Control for<br>Edge Rad<br>Network)                                    | Hotline Ro<br>Activated<br>Subscriber<br>MSISDNs                                | Hotline Ro<br>Activated<br>Subscriber<br>MSISDNs                                | Hotline Ro<br>Activated (<br>Subscriber<br>MSISDNs                              | Hotlin<br>Active<br>Subs   |
| Grant       | 06-Dec-02                            | 16-May-00  | 21-May-02  |   | ·   |  |   |   |   |   |   |  |
| Application | 30-Jan-98                            | 31-Jan-97  | 30-Nov-99  | 04-Mar-02   | 04-Mar-02   | 26-Oct-01                                      | 27-Nov-01   | 08-Nov-01   | 04-Jun-02   | 18-May-04   | 04-Jun-02   | 04-Jun-02  |
| Country     | Mexico                               | United States  | United States  | Patent<br>Cooperation<br>Treaty                             | United States   | United States                                  | United States   | United States   | European Patent<br>Convention   | Hong Kong   | Patent<br>Cooperation<br>Treaty   | United States  |
|             | Owner<br>AT&T Wireless               | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                                  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless  |
| Patent      | NUMBER<br>NUMBER                     | 6064875  | 6393283  |   |   |  |   |   |   |   |   |  |
| Application | Number<br>997060                     | 1288790  | 09/451589  | PCT/US02/06909  | 10/090265   | 10/039577                                      | 09/995327   | 60/337892   | 2734731.9   | 4103513.8   | PCT/US02/18053  | 10/162304  |
| Docket      | Number<br>550 MX                     | 550.US   | 550.US.C1  | 553.PCT   | 553.US  | 557.US   | 559.US  | 562P.US   | 264 FPC   | 564 HK  | 564.PCT   | 564.US   |

| Docket   | Application       | Patent | Own            | Country                       | Application<br>Date | Grant<br>Date | Title   |
|----------|-------------------|--------|----------------|-------------------------------|---------------------|---------------|---|
| Number   | Jagwin            |        |                |                               |                     |               | MSISDNs   |
|          |                   |        |                | 7                             | 03 Ang 02           |               | Methods and Apparatus for Mobile Station Location Estimation          |
| 565.CA   | 2441764           |        | AT&T Wireless  | Canada                        | 30-10U-00           |               | Methods and Apparatus for   |
|          |                   |        | ATRT Wireless  | China P.R.                    | 03-Apr-02           |               | Mobile Station Location<br>Estimation                                 |
| 565.CN   | 2807712.1         |        | 200            |                               |                     |               | Methods and Apparatus for   |
| 000      | 2750740 4         |        | AT&T Wireless  | European Patent<br>Convention | 03-Apr-02           |               | Mobile Station Location<br>Estimation                                 |
| 303.Er C |                   |        |                |                               |                     |               | Mobile Station Location   |
| 565 (P   | mailed            |        | AT&T Wireless  | Japan                         | 03-Apr-02           |               | Estimation  |
| 2000     |                   |        |                |                               |                     | ·· .          | Methods and Apparatus for Mobile Station Location                     |
| 565.KR   | 2003-7012902      |        | AT&T Wireless  | South Korea                   | 03-Apr-02           |               | Mothode and Apparatus for   |
|          |                   |        |                |                               | ٠                   | ٠.            | Mobile Station Location   |
| VI 202   | DA 12/2003/000014 |        | AT&T Wireless  | Mexico                        | 03-Oct-03           |               | Estimation  |
| JOS.MA   | T-Marzonaronan    |        |                | Patent                        |                     | ·.            | Methods and Apparatus for   |
|          |                   |        |                | Cooperation                   | 03-Apr-02           |               | Mobile Station Location<br>Estimation                                 |
| 565.PCT  | PCT/US02/10791    |        | Al&i Wireless  | licall                        | 20.00               |               | Mobile-Assisted Network   |
|          |                   |        | AT&T Wireless  | United States                 | 08-Mar-04           |               | Location Systèm (MNLS)<br>Overview                                    |
| 565.US   | 10/4/3926         |        | Section 1010   |                               |                     | Ŀ             | Methods and Apparatus for   |
|          |                   |        |                |                               |                     |               | Anonymous User Identification and Content Personalization in Wireless |
|          |                   |        | A TOT Missions | United States                 | 05-Dec-01           |               | Communication   |
| 566.US   | 1839637           |        | AT&T Wireless  | China P.R.                    | 17-Oct-03           |               | Binding Information for IP<br>Media Flows                             |
| 568.CN   | 2606403.3         |        |                | European Patent               | ·                   |               | Binding Information for IP  |
| 568.EPC  | 2728813.3         |        | AT&T Wireless  | Convention                    | 16-Apr-02           |               | Rinding Information for IP  |
| GI 895   | mailed            |        | AT&T Wireless  | Japan                         | 17-Oct-03           |               | Media Flows   |
|          |                   |        |                | Patent                        |                     |               | Binding Information for IP  |
| SER PCT  | PCT// IS02/12181  |        | AT&T Wireless  | Treaty                        | 16-Apr-02           |               | Media Flows   |
| 01.005   | 40,004047         |        | AT&T Wireless  | United States                 | 04-Mar-02           |               | Media Flows   |
| 208.03   | 10/08/1047        |        |                |                               |                     |               | <del></del>   |

| Docket         Application           Number         Number           573.EPC         1111279.4           573.JP         2001-146264           573.US         456433           576.EPC         2773532.3           576.PCT         PCT/US02/30124           576.US         09/972572 | Number | Owner AT&T Wireless AT&T Wireless AT&T Wireless | Name European Patent Convention Japan United States     | Date Date 16-May-01                   | Date | Title<br>Method and Systems for |
|---|--------|---|---|---------------------------------------|------|---------------------------------|
|   |        | AT&T Wireless AT&T Wireless AT&T Wireless       | European Patent<br>Convention<br>Japan<br>United States | 16-May-01                             |      | Method and Systems for          |
| y 5 5 6   |        | AT&T Wireless AT&T Wireless AT&T Wireless       | European Patent Convention Japan United States          | 16-May-01                             |      | Searching and Managing          |
|   |        | AT&T Wireless AT&T Wireless AT&T Wireless       | Convention<br>Japan<br>United States                    | 16-May-01                             |      | Information on Wireless         |
| 0 5   |        | AT&T Wireless AT&T Wireless                     | Japan<br>United States                                  |                                       |      | Data Devices                    |
| 0 5   |        | AT&T Wireless AT&T Wireless                     | Japan<br>United States                                  |                                       |      | Method and Systems for          |
| 0 5   |        | AT&T Wireless AT&T Wireless                     | Japan<br>United States                                  |                                       |      | Searching and Managing          |
| 0 5   |        | AT&T Wireless                                   | United States   | 16-Mav-01                             |      | Data Devices                    |
| O E   |        | AT&T Wireless                                   | United States   |                                       |      | Method and Systems for          |
| 0 -   |        | AT&T Wireless                                   | United States   |                                       | ٠    | Searching and Managing          |
| 0 +   |        | AT&T Wireless                                   | United States   |                                       |      | Information on Wireless         |
| 0 -   |        |   |   | 14-May-01                             |      | Data Devices                    |
|   |        |   |   |                                       |      | Recognition of an               |
|   |        |   | •   |                                       |      | Automatic Connection            |
|   | -      |   |   |                                       |      | Using Spoken Address            |
|   |        | _   |   |                                       |      | Information Received in         |
|   |        |   | European Patent   | , , , , , , , , , , , , , , , , , , , |      | Telephone Conversations         |
|   |        | AT&T Wireless                                   | Convention  | 30-Apr-04                             |      | Describing of an                |
|   |        |   |   |                                       |      | Recognition of an               |
|   |        |   |   |                                       |      | Monday Spoken Address           |
|   |        | -   | Patent  |                                       |      | Information Received in         |
|   |        |   | Cooperation   |                                       |      | Voice Mails and Real Time       |
|   |        | AT&T Wireless                                   | Treaty  | 19-Sep-02                             |      | Telephone Conversations         |
|   |        |   |   |                                       |      | System and Method for           |
|   |        |   |   |                                       |      | Recognition of and              |
|   |        |   | •   |                                       |      | Automatic Connection            |
|   |        |   |   | -                                     |      | Using Spoken Address            |
|   |        |   |   |                                       |      | Information Received in         |
|   |        |   |   |                                       |      | Voice Mails                     |
|   |        |   | 1 Inited Ctatos   | 03-0-4-01                             |      | Conversations                   |
|   |        | A Low I Wireless                                | Office States   | 0-100-00                              |      | Method and Apparatus for        |
|   |        | •   |   |                                       |      | Providing Power and             |
|   |        | •   |   |                                       |      | Wireless Protocol               |
|   |        |   |   |                                       |      | Capability to a Wireless        |
|   |        |   | -   |                                       |      | Device, Such as a Wireless      |
| Folian CA   |        | AT&T Wireless                                   | Canada  | 24-Jun-02                             |      | Phone                           |
|   |        |   |   |                                       |      | Method and Apparatus for        |
|   |        |   |   |                                       |      | Providing Power and             |
|   |        |   |   |                                       |      | Wireless Protocol               |
|   |        |   | Patent  |                                       |      | Capability to a Wireless        |
|   | ٠      |   | Cooperation   |                                       |      | Device, Such as a Vineress      |
| 577.PCT1   PCT/US02/20105   |        | AT&T Wireless                                   | Ireaty  | 24-Jun-02                             |      | anoil                           |

|            |                |            |                  |                       |             | •          |   | _               |
|------------|----------------|------------|------------------|-----------------------|-------------|------------|---|-----------------|
| Docket     | Application    | Patent     |                  | Country               | Application | Grant      | Title                                   |                 |
| Number     | Number         | Number     | Owner            | Маше                  | Date        |            | Wireless Adapter for Use                | 0               |
|            |                | ·          | ·                | Patent                |             |            | With Proprietary Hands-                 | ō               |
|            |                |            | AT&T Wireless    | Cooperation<br>Treaty | 24-Jun-02   |            | Multi-Model Mobile Phones               | nes             |
| 577.PCT2   | PCT/US02/20165 |            | Algi Wildias     | Patent                |             | i          | • | •               |
| ()         |                |            |                  | Cooperation           | 24- lun-02  |            | Bluetooth External Module for Car Radio | ejn             |
| 577.PCT3   | PCT/US02/20121 |            | AT&T Wireless    | Irealy                | 70.100.47   |            | Method and Apparatus for                | ٠               |
|            |                | •          |                  |                       |             |            | Providing Power and                     | *               |
|            |                |            |                  |                       |             |            | Canability to a Wireless                |                 |
|            |                |            |                  | ,                     |             |            | Device, Such as a Wireless              | less            |
|            |                |            | - coclesiat Fore | 1 Inited States       | 31-Dec-01   | 21-Oct-03  | Phone ·                                 | 7               |
| 577.US1    | 10/036188      | 6636749    | Ala Wireless     | OILICO CORCO          |             |            | Method and Apparatus for                | <u>ت</u>        |
|            |                |            | •                |                       |             |            | Providing Power and                     |                 |
|            |                |            |                  |                       |             |            | Canability to a Wireless                | ဟ               |
|            |                |            |                  |                       |             |            | Device, Such as a Wireless              | eless           |
|            |                |            |                  | 1 Inited States       | 29-111-03   |            | Phone                                   |                 |
| 577.US1.C1 | 10/630646      |            | AT&I WIREIESS    | Office Oraco          |             |            | Wireless Adapter for Use                | se              |
|            |                |            |                  |                       |             |            | With Proprietary Hands-                 | ·s              |
|            |                |            |                  |                       |             |            | Free Car Kits in Support of             | or of           |
|            |                |            | AT&T Wireless    | United States         | 31-Dec-01   |            | Multi-Model Mobile Phones               | ones            |
| 577.US2    | 10/036151      |            | 2000             |                       |             |            | Bluetooth External Module               | enie            |
|            |                |            | AT&T Wireless    | United States         | 31-Dec-01   |            | TOI CAI NAUIO                           | Τ,              |
| 577.US3    | 10/036109      |            | 2000             |                       |             |            | System and Method for                   |                 |
|            |                |            |                  |                       |             | * <u>.</u> | Providing an Automatic                  |                 |
|            |                |            |                  |                       |             | ·          | Call Tesponse to a recognition          | <br>}           |
| 585 115    | 2616507        |            | AT&T Wireless    | United States         | U6-May-U2   |            | Method and Apparatus for                | s for           |
| 20.000     |                |            | 20010011417-07-4 | I Inited States       | 12-Mav-95   | 30-Jul-96  | Preventing Wireless Fraud               | rand            |
| 586.US.C1  | 08/440183      | 5541977    | Algi Wireless    | 2000                  |             |            | Secure                                  |                 |
|            |                | •          |                  |                       |             | :          | Validation/Registration of              | 5 ,             |
| 60 311 343 | 00/652214      | 5754952    | AT&T Wireless    | United States         | 23-May-96   | 19-May-98  | A Cellular/PCS Handset                  | Set as          |
| 300,03.02  | 000000         |            |                  |                       | ٠           |            | NAM Download Capability                 | Allit<br>Pillit |
|            |                |            | :                |                       |             |            | Using a Wide-Area Paging                | aging           |
|            |                |            |                  | China D R             | 15-Jun-94   | 10-Oct-01  | System                                  |                 |
| 587.CN     | 94106449.2     | 94106449.2 | Alai Wireless    |                       |             |            | A Cellular/PCS Handset                  | set             |
|            |                |            |                  | w                     |             |            | NAM Download Capability                 | bility          |
|            |                |            |                  | ,                     |             | 40 604     | Using a Wide-Area Faging                | - Amb           |
| 587.IP     | 6-155408/1994  | 3035158    | AT&T Wireless    | Japan                 | 16-cu-96    | No.        | 1 57000                                 |                 |
|            |                |            |                  |                       |             |            | a <sub>1</sub> , ea t                   |                 |

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|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Title                 | A Cellular/PCS Handset<br>NAM Download Capability<br>Using a Wide Area Paging<br>System | Cellular/PCS Handset<br>NAM Download Capability<br>Using a Wide-Area Paging<br>System | Traffic Information<br>Estimation and Reporting<br>System | Pager-Controlled Wireless<br>Radiotelephone |
|                       | A Cellular/<br>NAM Dow<br>Using a W<br>System   | Cellular/P(<br>NAM Dowr<br>Using a W<br>System  | Traffic Information<br>Estimation and Re<br>System        | Pager-Controlled<br>Radiotelephone          | Pager-Controlle<br>Radiotelephone           | Pager-Controller<br>Radiotelephone          | Pager-Controller<br>Radiotelephone          | Pager-Controlle<br>Radiotelephone           |
| <b>Grant</b> Date     | 24-Aug-02   | 24-Feb-98   | 27-Jul-99   | 20-Dec-00   | 20-Dec-00   | 20-Dec-00   | 20-Dec-00   |   | 24-Oct-00   | 24-Mar-98   | 05-Oct-00                                   |   |   |   | 07-Apr-98                                   |
| Application Date      | 26-May-94   | 20-Aug-96   | 14-Aug-96   | 28-Aug-96   | 28-Aug-96   | 28-Aug-96   | 28-Aug-96   | 13-Sep-96   | 05-Sep-96   | 14-Sep-95   | 09-Jan-97                                   | 10-Dec-96                                   | 10-Jan-97                                   | 10-Jan-97                                   | 11-Jan-96                                   |
| Country               |   | United States   | Canada  | Germany 2   | Patent<br>on  |   | Great Britain   | Japan   | Mexico  | United States   | Australia                                   | Canada                                      | European Patent<br>Convention               | Japan                                       | United States                               |
| Owner                 | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                               | AT&T Wireless                               | AT&T Wireless                               | AT&T Wireless                               | AT&T Wireless                               |
| Patent<br>Number      | 363502  | 5722084   | 2183284   | DE69611274D   | 763807  | 763807  | 763807  |   | 199227  | 5732383   | 721050 .                                    | ·   |   |   | 5737707                                     |
| Application<br>Number | 10-1994-0011468   | 08/700135   | 2183284   | 763807  | 96113768.4  | 96113768.4  | 96113768.4  | 242430/1996   | 963902  | 768685  | 10091/97                                    | 2192500                                     | 97100336.3                                  | 2480/1997                                   | 08/584417                                   |
| Docket<br>Number      | 587.KR  | 587.US.C2   | 588.CA  | 588.DE  | 588.EPC   | 588.FR  | 588.GB  | 588.JP  | 588.MX  | 588.US  | 589.AU                                      | 589.CA                                      | 589.EPC                                     | 589.JP                                      | 589.US                                      |

| T                   |   | Γ                       |                           | 1             |   | Т             |   |   |  | T                 |  | Ţ             |  |                   | ×   | ×  |                   | ×   |  | ×                          |  | اخِ                        |                   | ĭ                          |
|---------------------|---|-------------------------|---------------------------|---------------|---|---------------|---|---|--|-------------------|--|---------------|--|-------------------|---|--|-------------------|---|--|----------------------------|--|----------------------------|-------------------|----------------------------|
| Title               | Automated Wireless-Call Completion Using a Paging Network     | Ireless-Call            | Completion Using a Paging | ile Captori   | Automated Wifeless-Call Completion Using a Paging Network | ווכט ממוסיווי | Automated wireless—Call Completion Using a Paging Network | Automated Wireless-Call<br>Completion Using a Paging<br>Network | Method and Apparatus for Spatial Redundancy in | vorks             | Analog-to-Digital<br>Transition: Selecting the<br>Optimal Cellular Radio Mix | 1410          | Analog-to-Digital<br>Transition: Selecting the<br>Optimal Cellular Radio Mix | igital            | Transition: Selecting the<br>Optimal Cellular Radio Mix | Analog-to-Digital<br>Transition: Selecting the<br>Optimal Cellular Radio Mix | igital            | Transition: Selecting the<br>Optimal Cellular Radio Mix | Analog-to-Digital<br>Transition: Selecting the | Optimal Cellular Radio Mix | Analog-to-Digital<br>Transition: Selecting the | Optimal Cellular Radio Mix | Analog-to-Digital | Optimal Cellular Radio Mix |
| Ë                   | Automated Wireless-Call<br>Completion Using a Pagi<br>Network | Automated Wireless-Call | Completion U              | Network       | Automated Wireless-Call Completion Using a Pagi           | AL POST       | Automated wireless-Call Completion Using a Pagi           | Automated Wireless-Call<br>Completion Using a Pagi<br>Network   | Method and Apparatus<br>Spatial Redundancy in  | Cellular Networks | Analog-to-Digital<br>Transition: Selec                                       | Apple to      | Analog-to-Digital Transition: Selec Optimal Cellular                         | Analog-to-Digital | Transition: S<br>Optimal Cell                           | Analog-to-Digital Transition: Select Optimal Cellular                        | Analog-to-Digital | Transition: S<br>Optimal Cel                            | Analog-to-Digital Transition: Selec            | Optimal Cel                | Analog-to-Digital Transition: Selec            | Optimal Ce                 | Analog-to-Digital | Optimal Ce                 |
| Grant<br>Date       | 19-Oct-00   |                         |                           | 05-Dec-00     |   |               |   | 01-Sep-98   |  | 07-Sep-99         | . 00   | 70-100-60     | *  |                   | 31-Jul-02   | 31-Jul-02  |                   | 31-Jul-02   |  | 31-Jul-02                  | ٠.   |                            |                   | 28-Sep-99                  |
| tion                |   |                         |                           |               |   |               |   |   |  |                   |  |               |  |                   |   |  |                   | •   |  |                            |  |                            |                   |                            |
| Application<br>Date | 09-Jan-97   | 10000                   | ;                         | 10-Dec-96     | 60 00   | 10-791-97     | 10-Jan-97   | 11-Jan-96   |  | 08-Sep-97         | 80   | 08-Apr-30     | 02-Jun-98  |                   | 07-Apr-98   | 07_Apr_98  |                   | 07-Apr-98   |  | 07-Apr-98                  |  | 02-Jun-98                  |                   | <br>  03-Jun-97            |
| Country             | Anetralia   | Australia               |                           | Canada        | European Patent   | Convention    | Japan   | United States   |  | United States     | -  | Canada        | China P.R.   |                   | Germany   | European Patent  | COILVEILION       | France  |  | Great Britain              |  | Japan                      |                   | I Inited States            |
| Owner               |   | 1                       |                           | AT&T Wireless |   | AT&T Wireless | AT&T Wireless   |   | NIGHT WILLIAM                                  | AT&T Wireless     |  | AT&T Wireless | AT&T Wireless  | 2000              | AT&T Wireless   |  | A1&1 Wireless     | ATRT Mirelace   | COOLUMN NO.                                    | AT&T Wireless              |  | AT&T Wireless              |                   | ATOT Mississes             |
| Patent              |   | 721605                  |                           | 2192513       |   |               |   |   | 2802410  | 5050134           |  | 2234322       |  |                   | . 7   |  | 883317            |   | 063317   | 002347                     | 1 0000   |                            |                   |                            |
| Application         | ISCHION INCIDENT  | 10092/97                |                           | 2192513       |   | 97100337.1    | 1001011   | 10010147  | 08/584416                                      | 0002000           | 600,1022   | 2234322       |  | 98109554.2        | 0 34700000  | 363027 13.2  | 98302715.2        |   | 98302715.2                                     |                            | 983027 13.2                                    |                            | 10-152303         |                            |
| Docket              | iagu  | 591.AU                  |                           | 591.CA        |   | 591.EPC       | Ē   | TC: 180   | 591.US   | 31100             | 292.03   | 593.CA        |  | 593.CN            | i.  | 393.UE   | 593.EPC           | -   | 593.FR   |                            | 593.68   |                            | 593.JP            |                            |

| Docket       | Application     | Patent     |                  | Country           | Application | Grant       | j                                  |
|--------------|-----------------|------------|------------------|-------------------|-------------|-------------|------------------------------------|
|              | Mailing         | Mulliper   | Owler            | Name              | Date        | Date        | HITE                               |
|              |                 |            |                  |                   |             |             | Automatic Cellular                 |
| -            |                 |            |                  | European Oatont   |             |             | Telephone Registration for         |
| 594 FPC      | 07103150 6      | 702275     |                  | במוסףספון רפופוונ |             | ;           | Universal Telephone                |
| 2011         | 97 103 139.0    | 1933/3     | A I & I WITEIESS | Convention        | 26-Feb-97   | 26-Nov-03   | Number Service                     |
|              |                 |            |                  |                   |             |             | Automatic Cellular                 |
| •            |                 |            |                  |                   |             |             | Telephone Registration for         |
| 594.GB       | 97103159 6      | 07103150 E | ATSTIMINA        | Cross Drivers     | 70 704      |             | Universal Telephone                |
|              |                 | 0.50.00    | Aldi Wildiess    | Great Dilialli    | /A-0au-07   | ZD-NON-03   | Number Service                     |
|              |                 |            |                  |                   |             |             | Automatic Cellular                 |
|              |                 |            |                  |                   |             |             | Telephone Registration for         |
| 594.JP       | 45001/1997      |            | AT&T Wireless    | Japan             | 28-Feb-97   |             | Universal felephone Number Service |
|              |                 |            | -                |                   |             |             | Automatic Cellular                 |
|              |                 | •          |                  |                   |             |             | Telephone Registration for         |
| 22.72        |                 |            |                  |                   |             |             | Universal Telephone                |
| 394.NK       | 10-1997-0006587 |            | AT&T Wireless    | South Korea       | 28-Feb-97   |             | Number Service                     |
|              |                 |            |                  |                   |             |             | Automatic Cellular                 |
|              |                 |            |                  |                   |             |             | Telephone Registration for         |
| 504116       | 00/00/20        | 0,000      |                  |                   |             |             | Universal Telephone                |
| 20.75        | 00/000232       | 2950340    | A I & I Wireless | United States     | 28-Feb-96   | 28-Sep-99   | Number Service                     |
|              |                 |            |                  |                   |             | •           | Wireless Communications            |
|              |                 |            |                  | ٠.                |             |             | Cellular Architecture for          |
| 595.US       | 08/862095       | 6002935    | AT&T Wireless    | United States     | 22-Mav-97   | 14-Dec-99   | Resource Allocation                |
|              |                 |            |                  |                   |             |             | Wireless Communications            |
|              |                 |            | •                |                   |             |             | Cellular Architecture for          |
|              |                 | -          |                  |                   |             | •           | Improving Communications           |
| 595.US.C2    | 09/893869       |            | AT&T Wireless    | United States     | 29-Jun-01   |             | Resource Allocation                |
|              |                 |            |                  |                   |             |             | Method for Predicting the          |
|              |                 |            |                  |                   |             |             | Location of a Mobile               |
| 596.US       | 08/941231       | 6052598    | AT&T Wireless    | United States     | 30-San-07   | 18. Apr. 00 | Communications Notice              |
|              |                 |            |                  | COURT COURT       | 10-00-00    | 00-100-01   | Method for Self-Calibration        |
|              |                 |            |                  |                   |             | •.          | of a Wireless                      |
| 597.CA.CP1   | 2204815         | 2204815    | AT&T Wireless    | Canada            | 08-May-97   | 12-Aug-03   | Communication System               |
|              |                 |            |                  |                   |             | ٠.          | Method for Self-Calibration        |
|              |                 |            |                  |                   |             |             | of a Wireless                      |
| 597.CA.CP1D1 | 2350939         |            | AT&T Wireless    | Canada            | 08-May-97   |             | Communication System               |
|              |                 |            |                  |                   |             |             | Method for Self-Calibration        |
| 597.CA.CP1D2 | 2352594         |            | AT&T Wireless    | Canada            | 08-May-07   |             | of a Wireless                      |
|              |                 |            | 2000             | 000000            | 00-11/dJ-01 |             | Wisches Commissioning              |
| 597.EPC.D1   | 1116398.7       |            | AT&T Wireless    | European Patent   | 08.14.01    |             | System With Adaptive               |
|              |                 |            |                  |                   |             |             |                                    |

| Docket         Application         Patent         Country         Application         Graft         Title           Number         Number         Number         Number         Owner         Anat Virges         Japan         24.06+97         Anat Virges           91_BCP1         2018/27/1997         ATAT Virges         Japan         10-Jul-01         Communication Self-Calibration of a Windess Calibration of Authority Self-Calibration of Authority Authority Self-Calibration of Authority Self-Calibration of Authority Authority Self-Calibration of Authority Authority Self-Calibration of Authority Self-Calibration of Authority   |              |             | •       |                       |                 |                  |               |   |
|--|--------------|-------------|---------|-----------------------|-----------------|------------------|---------------|---|
| Number   Number   Owner   Name   | Docket       | Application | Patent  |                       | Country         | Application Date | Grant<br>Date | Title   |
| 24.0ct-97  | Number       | Number      | Number  | Owner                 | Name            |                  |               | Method for Self-Calibration of a Wireless     |
| 2018571397   AT&T Wineless   Japan   10-Jul-01   Cont.   Con   |              |             |         |                       |                 | 24-Oct-97        |               | Communication System                          |
| 1001-206594   AT&T Wireless   Japan   10-Jul-01   Co-Jul-01   Co-Jul-01   Co-Jul-01   Co-Jul-02   Co-Jul-03   Co-Jul-03   Co-Jul-04   Co   | 97.JP.CP1    | 291857/1997 |         | AT&T Wireless         |                 |                  |               | Method for Self-Calibratio                    |
| 1001-206584  |              |             |         |                       |                 |                  |               | of a Wireless Communication System            |
| 1C1         1133622         6473623         AT&T Wireless         United States         25-Oct-96         29-Oct-02           1C1         1133622         6775549         AT&T Wireless         United States         08-Oct-02         10-Aug-04           1C2         1133622         6775549         AT&T Wireless         United States         30-Dec-38         17-Dec-02           2231928         AT&T Wireless         Canada         12-Mar-96         17-Dec-02           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         18-Feb-03           98301494.5         883315         AT&T Wireless         Convention         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-96         19-May-04  | 9            | 2001-206584 |         | AT&T Wireless         | Japan           | 10-101-01        |               | Method for Self-Calibratic                    |
| 1C1         08736871         6473623         AT&T Wireless         United States         08-Oct-02         10-Aug-04           1C2         1133622         6775549         AT&T Wireless         United States         30-Dec-86         17-Dec-02           09/222894         649689         AT&T Wireless         Canada         12-Mar-96         17-Dec-02           2231928         2231928         AT&T Wireless         Canada         12-Mar-96         18-Feb-03           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         19-May-04           98301494.5         883315         AT&T Wireless         Convention         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         Gerna Britain         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-96         19-May-04   | 10.75.18     |             |         |                       | States Project  | 25-Oct-96        | 29-Oct-02     | of a Wireless<br>Communication System         |
| 1C1         1133622         6775549         AT&T Wireless         United States         08-Oct-02         10-Aug-04           09/222894         6496699         AT&T Wireless         United States         30-Dec-86         17-Dec-02           2231928         2231928         AT&T Wireless         Canada         12-Mar-96         18-Feb-03           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         19-May-04           98301494.5         883315         AT&T Wireless         Convention         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-96         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-96         19-May-04   | 397.US.CP1   | 08/736871   | 6473623 | AT&T Wireless         | United States   |                  |               | Method for Self-Calibrate of a Wireless       |
| 1CT         1133622         6775549         AT&T Wireless         United States         30-Dec-96         17-Dec-02           991222894         6496699         AT&T Wireless         Canada         12-Mar-98         16-Feb-03           2231928         AT&T Wireless         China P.R.         02-Jun-98         16-Feb-03           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         19-May-04           98301494.5         883315         AT&T Wireless         Convention         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04   |              |             |         | and critations        | United States   | 08-Oct-02        | 10-Aug-04     | Communication System                          |
| 09/222694         6496699         AT&T Wireless         United States         30-Dec-96         17-Dec-02         Convention           2231928         2231928         AT&T Wireless         Canada         12-Mar-96         18-Feb-03         M           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         18-Feb-03         N           98301494.5         883315         AT&T Wireless         Germany         02-Mar-96         19-May-04         N           98301494.5         883315         AT&T Wireless         Convention         02-Mar-96         19-May-04         N           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-96         19-May-04         N           687/MAS/98         AT&T Wireless         Great Britain         02-Mar-96         19-May-04         N  | 597.US.CP1C1 | 1133622     | 6775549 | Alai viidios          |                 |                  |               | of a Wireless                                 |
| 09/222894         6496699         AT&T Wireless         Canada         12-Mar-98         18-Feb-03         M M T T Wireless           2231928         2231928         AT&T Wireless         China P.R.         02-Jun-98         18-Feb-03         N M M M M M M M M M M M M M M M M M M M   |              |             |         |                       | Holfed States   | 30-Dec-98        | 17-Dec-02     | Communication System                          |
| Table  | 597.US.D1    | 09/222894   | 6496699 | AI&I WIREIESS         |                 |                  |               | Method and System for   Providing Access to a |
| S231928   S231928   AT&T Wireless   Canada   12-Mar-98   19-Feb-03   N Matter   N Matt   |              |             |         |                       |                 |                  |               | Telecommunications                            |
| 2231928 2231928 AT&T Wireless China P.R. 02-Jun-98 N N O2-Jun-98 N N N O2-Jun-98 N N N N N N N N N N N N N N N N N N N   |              |             |         |                       | Canada          | 12-Mar-98        | 18-Feb-03     | Network                                       |
| 98109550.X   AT&T Wireless   China P.R.   02-Jun-98   N N N N N N N N N N N N N N N N N N  | 598.CA       | 2231928     | 2231928 | AT&I Wireless         | Callada         |                  |               | Method and System for Droviding Access to a   |
| 98109550.X   AT&T Wireless   China P.R.   O2-Jun-98   N   N   N   N   N   N   N   N   N  |              |             |         |                       |                 |                  |               | Telecommunications                            |
| 98109550.X   AT&T Wireless Clinical III.   P P P P P P P P P P P P P P P P P P   |              |             | • •     |                       | م م درنامی      | 02-Jun-98        |               | Network                                       |
| C         98301494.5         883315         AT&T Wireless         Germany         02-Mar-98         19-May-04         N           C         98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           3         98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           3         98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04           4         AT&T Wireless         Great Britain         02-Mar-98         19-May-04  | 598.CN       | 98109550.X  |         | AT&T Wireless         | Ciliar .iv.     |                  |               | Method and System for                         |
| C         98301494.5         883315         AT&T Wireless         Germany         02-Mar-98         19-May-04         N           C         98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04         P           B         98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           B         58301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04           B         AT&T Wireless         India         01-Apr-98         19-May-04  |              |             |         |                       |                 |                  |               | Telecommunications                            |
| Seconday, 5   Seconday   |              |             |         |                       |                 | 90               | 10-May-04     | Network                                       |
| European Patent Convention 02-Mar-98 19-May-04 N AT&T Wireless Convention 02-Mar-98 19-May-04 N AT&T Wireless Great Britain 02-Mar-98 19-May-04 N AT&T Wireless Great Britain 02-Mar-98 19-May-04 N AT&T Wireless India 01-Apr-98 19-May-04 N AT&T Wireless India 01-Apr-98  | 11000        | 08301494.5  | 883315  | AT&T Wireless         | Germany         | 02-Mar-98        | 1 STIVIES     | Method and System for                         |
| 98301494.5         883315         AT&T Wireless         European Patent Convention         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04           687/MAS/98         AT&T Wireless         India         01-Apr-98         19-May-04   | 390.DE       | 20000       |         |                       |                 |                  |               | Providing Access to a                         |
| 98301494.5 883315 AT&T Wireless Convention 02-Mar-98 19-May-04 98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04 687/MAS/98 AT&T Wireless India 01-Apr-98  |              |             | ••      | •                     | European Patent | ;                | 40 1400       | Network                                       |
| 98301494.5 883315 AT&T Wireless France 02-Mar-98 19-May-04 198301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04 AT&T Wireless India 01-Apr-98  |              | 2000000     | 883315  | AT&T Wireless         | Convention      | 02-Mar-98        | 19-May-04     | Method and System for                         |
| 98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-9B         19-May-04           687/MAS/98         AT&T Wireless         India         01-Apr-9B  | 598.EPC      | 90501494.0  |         |                       | -               |                  |               | Providing Access to a                         |
| 98301494.5 883315 AT&T Wireless France 02-Mar-98 19-May-04 98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04 687/MAS/98 AT&T Wireless India 01-Apr-98  | •            |             |         | _                     |                 |                  |               | 1 elecommunications                           |
| 98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04 687/MAS/98 AT&T Wireless India 01-Apr-98   | ٠            |             | 370000  | AT&T Wireless         | France          | 02-Mar-98        | 19-May-04     | Method and System fo                          |
| 98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04 687/MAS/98 AT&T Wireless India 01-Apr-98   | 598.FR       | 98301494.5  | 883313  | 5                     |                 |                  |               | Providing Access to a                         |
| 98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04           687/MAS/98         AT&T Wireless         India         01-Apr-98   |              |             |         |                       |                 |                  |               | Telecommunications                            |
| 98301494.5 883315 AT&T Wireless Order Critical C |              |             |         |                       | Crost Britain   | 02-Mar-98        | 19-May-04     | Network                                       |
| 687/MAS/98 AT&T Wireless India 01-Apr-98   | 598.GB       | 98301494.5  | 883315  | AI&I WIREIESS         | 1000            |                  |               | Method and System in Providing Access to a    |
| 687/MAS/98 AT&T Wireless India 01-Apr-98   |              |             | •.      |                       | - N             |                  |               | Telecommunications                            |
| 687/MAS/98   AIGH WIIEless   |              |             |         | and collective to the | ipul<br>eibul   | 01-Apr-98        |               | Network                                       |
|  | 598.IN       | 687/MAS/98  |         | Alái Wileiess         | 2001            |                  |               |   |

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|-------------|------------------|---------------|-----------------|---------------------|---------------|-------------------------------|
| Number      | Patent<br>Number | Owner         | Country         | Application<br>Date | Grant<br>Date | Title                         |
|             |                  |               |                 |                     |               | Method and System for         |
|             |                  |               |                 | •                   |               | Providing Access to a         |
| 10-145267   |                  | AT&T Wireless | Japan           | 27-May-98           |               | Telecommunications<br>Network |
|             |                  |               | ~               |                     |               | Method and System for         |
|             |                  |               |                 |                     |               | Providing Access to a         |
| 73676       |                  |               | No.             | 90                  |               | Telecommunications            |
| 304934      |                  | Algi Wildigs  | INIGAICO        | 06-100-10           |               | Method and System for         |
|             |                  |               |                 |                     |               | Providing Acrese to a         |
|             |                  |               |                 |                     |               | Telecommunications            |
| 08/868407   |                  | AT&T Wireless | United States   | 03-Jun-97           |               | Network                       |
|             |                  |               |                 |                     |               | International Roaming         |
|             |                  |               |                 |                     |               | Service for Permitting a      |
| :           |                  |               |                 |                     |               | Cellular/wireless             |
|             |                  |               |                 |                     |               | l elephone Instrument to      |
|             |                  |               |                 |                     |               | Tologhan Milesent Wireless    |
|             |                  |               | :               |                     |               | l elephone Network            |
| 0003715-0   |                  | AT&T Wireless | Brazil          | 21-Aug-00           |               | Systems                       |
|             | •                |               |                 |                     |               | International Roaming         |
|             |                  |               |                 |                     |               | Service for Permitting a      |
|             |                  |               | •               |                     |               | Cellular/Wireless             |
|             |                  |               |                 |                     | 00            | l elephone Instrument to      |
|             |                  |               | -               |                     |               | Access Utterent Wireless      |
|             |                  |               |                 |                     | •             | l elephone Network            |
| 2316088     |                  | AT&T Wireless | Canada          | 17-Aug-00           |               | Systems                       |
|             |                  |               | •               |                     |               | International Roaming         |
|             |                  |               |                 |                     |               | Service for Permitting a      |
| •           |                  |               |                 |                     |               | CellularWireless              |
|             |                  |               |                 |                     |               | Telephone Instrument to       |
|             |                  |               |                 |                     |               | Access Different Wireless     |
|             |                  |               | European Patent |                     |               | Telephone Network             |
| 112746.3    |                  | AT&T Wireless | Convention      | 16-Jun-00           |               | Systems                       |
|             |                  |               |                 |                     |               | International Roaming         |
|             |                  |               |                 |                     |               | Service for Permitting a      |
|             |                  | •             |                 |                     |               | CellularWireless              |
|             |                  |               |                 |                     |               | Telephone Instrument to       |
|             |                  | -             |                 |                     |               | Access Different Wireless     |
|             | •                |               |                 |                     |               | Tologhone Natural             |
| 2000-254818 |                  | AT&T Wireless | lanan.          | 25-Aug-00           |               | Systems                       |
| 2007-2010   |                  | 2000          |                 | 8                   |               | International Roaming         |
|             |                  |               |                 |                     |               | Service for Permitting a      |
|             |                  |               |                 |                     |               | CellularWireless              |
| 00/384451   |                  | ATOT Mississe | 1 Inited States | 27-010-00           | 20 1:1 00     | Tolonhone later mont to       |

| Docket       | Application    | Patent  |                | Country         | Application<br>Date | Grant<br>Date | Title   |
|--------------|----------------|---------|----------------|-----------------|---------------------|---------------|---|
| Number       | Number         | Number  | Owner          | Name            |                     |               | Access Different Wireless                         |
|              |                |         |                | <del></del>     |                     |               | Systems   |
| •            |                |         |                |                 |                     |               | International Roaming<br>Service for Permitting a |
|              |                | •       | •              |                 |                     |               | Cellular/Wireless                                 |
|              |                |         |                |                 |                     |               | Telephone Instrument to                           |
| <u>-</u> .   |                |         |                |                 |                     |               | Access Different Wireless                         |
|              |                |         |                |                 |                     | 0             | Telephone Network                                 |
|              |                |         |                | I Inited States | 17~Jun-04           |               | Systems   |
| 600 US.C1    | mailed         |         | AT&T Wireless  | Ollifad Oraros  |                     |               | Method and Apparatus for                          |
|              |                |         |                |                 | •                   |               | Navigation Using a Portable Communication         |
|              |                |         |                | acted O Latter  |                     | 13-Nov-01     | Device  |
| SI15         | 09/469266      | 6317684 | AT&T Wireless  | United States   | 25-000-27           |               | Method and Apparatus for                          |
| 002:00       | *              |         |                |                 |                     | • .           | Enhanced 911 Location                             |
|              | -              |         |                |                 | 00 001              | 11-Jun-02     | Wireless System                                   |
| 91.600       | 00/489477      | 6404388 | AT&T Wireless  | United States   | 21-Jan-00           |               | Method and Apparatus for                          |
| 603.03       |                |         |                |                 |                     |               | Enhanced 911 Location                             |
|              |                |         |                |                 |                     | 200           | Using Power Control in a                          |
|              |                |         | ATRT Wireless  | United States   | 24-May-02           | 08-3UI-03     | Wileless System                                   |
| 603.US.C1    | 10/155380      | 6590533 | September 1918 |                 |                     | • 10          | Enhanced 911 Location                             |
|              |                | :       | _              |                 |                     |               | Using Power Control in a                          |
| •            |                |         |                | United States   | 06-Jun-03           |               | Wireless System                                   |
| 603.US.C1(1) | 10/456052      |         | A1&I WIREIESS  | Dames Common    |                     |               | Intelligent Roadway                               |
|              |                | -       | AT&T Wireless  | United States   | 15-Nov-02           | 01-Jun-04     | System Shapped Communication                      |
| 604.US.C1    | 10/295293      | 6/44363 |                |                 |                     |               | Sevice for Predicting and                         |
|              | -              |         |                | ··              |                     |               | Handling Communication                            |
|              |                |         | AT&T Wireless  | United States   | 06-Jul-01           | -             | Interruption                                      |
| 605.US       | 09/900773      |         |                | European Patent | 1                   |               | Secure Online Purchasing                          |
|              | 2742437 E      |         | AT&T Wireless  | Convention      | 18-Feb-03           |               |   |
| 606.EPC      | 3/4313/.0      |         |                | Patent          |                     |               |   |
| <u> </u>     |                |         |                | Cooperation     | 18-Feb-03           |               | Secure Online Purchasing                          |
| 606.PCT      | PCT/US03/04650 |         | AT&T Wireless  | 11-ited Chatee  | 22-Feb-02           |               | Secure Online Purchasing                          |
| 806.US       | 10/080988      |         | AT&T Wireless  | Office Otato    | 30 May 02           |               | Secure Online Purchasing                          |
| 606.US.CP1   | 10/160656      |         | AT&T Wireless  | United States   | 30-INIQ 70E         |               | A Call Queue in a Wireless                        |
| 507116       | 10/017629      |         | AT&T Wireless  | United States   | 13-Dec-01           |               | Device  |
| 507.00       |                |         |                |                 |                     |               |   |

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|-----------------------|---|--|--|----------------------------|---------------|---------------|--|--|--|---|-----------------------------------|--|--|---------------------------------|---|----------------------------|----------------------|---------------------------|
| e                     | ronous a<br>Databas   | ethod for<br>gital Righ<br>owser   | ethod for<br>gital Righ<br>owser   | ber Netw                   |               |               | enticatio  | Prepaid<br>n Service                             | Prepaid<br>n Service                             | ations                                  | ations                            | ethod for<br>iting                     | tion Meth<br>and<br>Same   | ssage                           | sponse<br>n (IRC)                           | cation T                   | System               | Cell Planning Methods and |
| Title                 | Efficient Synchronous and Asynchronous Database Replication | System and Method for<br>Providing a Digital Rights<br>Scheme for Browser<br>Downloads | System and Method for<br>Providing a Digital Rights<br>Scheme for Browser<br>Downloads | Virtual Subscriber Network |               | PIC Freeze    | Biometric Authentication of a Wireless Device User | Multi-Standard Prepaid<br>Communication Services | Multi-Standard Prepaid<br>Communication Services | Prepaid<br>Telecommunications<br>System | Prepaid Telecommunications System | System and Method for SMS Text Routing | Text Abbreviation Methods<br>and Apparatus and<br>Systems Using Same | Speech to Message<br>Processing | Interrogate Response<br>Communication (IRC) | Interactive Education Tool | Receiver Test System | Cell Planning Methods and |
|                       | Effici<br>Asyr<br>Repl                                      | Syst<br>Sche<br>Dow  | Syst<br>Prov<br>Sche<br>Dow  | Virtu                      |               | PIC           | Biorr<br>a Wi                                      | Multi  | Multi  | Prepaid<br>Telecon<br>System            | Prepaid<br>Telecon<br>System      | Syst                                   | Text<br>and<br>Syst  | Spec                            | Inter                                       | Inter                      | Rec                  | <u>ই</u>                  |
| Grant<br>Date         | ,   |  |  |                            |               |               |  |  | +  |   |                                   |  | ·  |                                 |   |                            |                      | -                         |
| ion                   |   |  | ·  |                            |               |               |  |  |  |   |                                   |  |  |                                 |   |                            |                      |                           |
| Application<br>Date   | 31-Jul-02   | 23-May-03  | 30-May-02  | 25-Sep-02                  | 28-May-04     | 20-Oct-03     | 24-May-02  | 09-Mar-04  | 18-Mar-03  | 12-Nov-03                               | 14-Nov-02                         | 07-May-04                              | 28-Oct-02  | 28-Oct-02                       | 19-Feb-03                                   | 23-Oct-02                  | 04-Aug-03            |                           |
| ₹                     | 31-7  | 23-N   | 30-N   | 25-8                       | 28-N          | 20-0          | 24-N   | 09-N   | 18-N   | 12-h                                    | 4                                 | 07-N                                   | 28-(   | 28-(                            | 19-6  | 23-0                       | 9                    |                           |
| Country<br>Name       | tates   | tion   | tates  | tates                      | tates         | tates         | tates  | ition  | tates  | ition                                   | tates                             | tates                                  | tates  | tates                           | tates                                       | tates                      | tates                |                           |
| Sou<br>Na             | United States   | Patent<br>Cooperation<br>Treaty  | United States  | United States              | United States | United States | United States                                      | Patent<br>Cooperation<br>Treaty                  | United States                                    | Patent<br>Cooperation<br>Treaty         | United States                     | United States                          | United States  | United States                   | United States                               | United States              | United States        |                           |
|                       |   |  |  |                            |               |               |  |  |  |   |                                   |  |  |                                 |   |                            |                      |                           |
| Owner                 | AT&T Wireless   | AT&T Wireless  | AT&T Wireless  | AT&T Wireless              | AT&T Wireless | AT&T Wireless | AT&T Wireless                                      | AT&T Wireless                                    | AT&T Wireless                                    | AT&T Wireless                           | AT&T Wireless                     | AT&T Wireless                          | AT&T Wireless  | AT&T Wireless                   | AT&T Wireless                               | AT&T Wireless              | AT&T Wireless        |                           |
| O                     | AT&T V  | AT&T V   | AT&T V   | AT&T V                     | AT&T V        | AT&T V        | AT&T   | AT&T V   | AT&T   | AT&T                                    | AT&T \                            | AT&T \                                 | AT&T \   | AT&T                            | AT&T  | AT&T V                     | AT&T                 |                           |
| Patent<br>Number      |   |  |  | •                          |               |               |  |  |  |   | •                                 |  |  |                                 |   |                            |                      |                           |
| Application<br>Number | Z   | PCT/US03/16652   | 35   | 58                         |               | 58            | 17   | PCT/US04/07235                                   |  | PCT/US03/36316                          |                                   | 10                                     | 42   | 60                              |   | 20                         | 77                   |                           |
| Appl<br>Nu            | 10/209754   | PCT/US(  | 10/160695  | 10/259558                  | 1387467       | 10/690468     | 10/155917  | PCT/US(  | -445686  | PCT/US(                                 | 10/295233                         | 10/840810                              | 10/282742  | 10/282909                       | mailed                                      | 10/279170                  | 10/634977            |                           |
| Docket<br>Number      | Sn  | PCT  | Sn   | US                         | US            | US            | NS   | PCT  | Sn   | PCT                                     | US                                | ns                                     | S  | Sn                              | SD  | 634.US.CP1                 | US                   |                           |
| n Z                   | 608.US  | 609.PCT  | SU.609   | 614.US                     | 618.US        | 619.US        | 621.US   | 622.PCT  | 622.US   | 625.PCT                                 | 625.US                            | 628.US                                 | 630.US   | 632.US                          | 633.US                                      | 634.                       | 635.US               |                           |

|         |                 |        | .                 |   |                     | 1             |  |
|---------|-----------------|--------|-------------------|---|---------------------|---------------|--|
| Docket  | Application     | Patent |                   | Country                                 | Application<br>Date | Grant<br>Date | Title  |
| Number  | Number          | Number | Owner             |   |                     |               | Configured Based on Same   |
|         |                 |        |                   |   |                     |               | Methods and Apparatus for  |
|         |                 |        |                   |   |                     |               | Formatting Information for   |
| 01.000  | 216500          |        | AT&T Wireless     | United States                           | 22-Jul-02           |               | Conditional Application  |
| 020.02  | 710000          |        |                   |   |                     |               | Invocation in a Wireless   |
|         |                 |        |                   | Libited States                          | 19-Dec-02           |               | Device   |
| 639.US  | 10/324494       |        | AT&T Wireless     | חווופח סומוכס                           |                     |               | Authomated Device  |
|         |                 |        |                   |   |                     |               | Behavior Management  |
|         |                 | •      | •                 |   |                     |               | Based on Network   |
|         |                 |        |                   |   |                     |               | Charging and Rating  |
| •       |                 |        | AT9T Wireless     | United States                           | 19-Dec-02           |               | Conditions   |
| 640.US  | 10/324354       |        | AIGH WHICHOUS     |   |                     |               | Automated Device   |
|         |                 | -      |                   |   |                     |               | Benavior Management  |
|         |                 |        |                   |   |                     |               | Draferences  |
| •       |                 |        | AT&T Wireless     | United States                           | 19-Dec-02           |               | Control of Societity Of  |
| 641.US  | 10/324139       |        |                   |   |                     |               | Ease-of-1 is Sensitivity for   |
|         |                 |        | · ·               |   |                     |               | a Wireless Communication   |
|         |                 |        |                   |   | 40.00.02            |               | Device   |
| 642 US  | 10/324870.      |        | AT&T Wireless     | United States                           | 12.000.0            |               | Verification System for  |
|         |                 |        |                   |   |                     |               | Facilitating Transactions  |
|         |                 |        |                   |   |                     |               | via Comunication   |
|         | <del>-,</del> , |        |                   |   | 1                   |               | Networks and Associated  |
| ••      |                 |        | AT9T:\A/ireless   | United States                           | 20-Dec-02           |               | Method   |
| 644.US  | 10/325408       |        | אומו אוומומים     |   |                     | ٠.            | General Purpose  |
|         |                 |        |                   |   |                     |               | Provisioning Technologies  |
| 645115  | 10/700301       |        | AT&T Wireless     | United States                           | 31-001-03           |               | Self-Activation via Wired  |
| 20.55   |                 |        |                   | 1 Inited States                         | 01-Nov-02           |               | Web and Device   |
| 645P.US | 60/423224       |        | AT&T Wireless     | Office Craics                           |                     |               | System and Method for  |
|         |                 |        |                   |   |                     |               | Network Data Quality   |
|         |                 | _      | 20010:141 - 0 - 4 | I Inited States                         | 31-Dec-02           |               | Measurement  |
| -646.US | 1779371         |        | Al&I Wireless     | 200000000000000000000000000000000000000 |                     |               | Networks and Methods   |
|         |                 |        | *                 |   |                     |               | Integrating Digital Mobile   |
|         |                 |        | AT&T Wireless     | United States                           | 23-May-03           |               | Standards   Standa |
| 649.US  | 10/445173       | -      |                   |   |                     |               | Messacing System   |
| 652.US  | 10/364421       |        | AT&T Wireless     | United States                           | 12-Feb-03           |               | Authoritation of Address   |
|         |                 |        |                   | Flattod Chatae                          | 18_lan_03           | ·<br>·        | Book Entries   |
| 653.US  | 10/346497       |        | AT&T Wireless     | United States                           | - Indahan           |               |  |
|         |                 |        |                   |   |                     |               |  |

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|-----------------------|--|--|---|--|--|---|---|--|---|--|
| Title                 | ermining<br>Vireless<br>Associated<br>nd Finder)                                       | System for Providing Location-Based Services in a Wireless Network, Such as Locating Individuals and Coordinating Meetings | System for Providing Location-Based Services in a Wireless Network, Such as Modifying Locating Privileges Among | Individuals and Managing<br>Lists of Individuals<br>Associated with Such<br>Privileges | Apparatus and Systems for<br>Providing Location-Based<br>Services Within a Wireless<br>Network | res and<br>Location-<br>ces Within a  | Method for Providing Location-Based Services in a Wireless Network, Such as Varying Levels of Services    | Profile Driven Response to<br>Communication Events | Profile Driven Response to<br>Communication Events<br>Simplified Wireless Device<br>Pairing | System and Method for Integrating Local-Area and Wide-Area Wireless Networks |
| <u> </u>              | Location Determining System for Wireless Network and Associated Method (Friend Finder) | System for Providing Location-Based Service a Wireless Nework, St as Locating Individuals Coordinating Meetings            | System for Providing Location-Based Service a Wireless Network, S as Modifying Locating Privileges Among        | Individuals and Mana<br>Lists of Individuals<br>Associated with Such<br>Privileges     | Apparatus ar<br>Providing Lo<br>Services Witl  | Data Structures and<br>Methods for Location-<br>Based Services Within a<br>Wireless Network | Method for Providing<br>Location-Based Servi<br>a Wireless Network, 3<br>as Varying Levels of<br>Services | Profile Driven Response<br>Communication Events    | Profile Driven Response Communication Events Simplified Wireless Dev                        | System and Method for Integrating Local-Area & Wide-Area Wireless Networks   |
| Grant<br>Date         |  |  |   | •  |  |   |   | ·  |   | ·  |
| Application<br>Date   | 10-Jun-03  | 20-Dec-02  |   | 20-Dec-02  | 20-Dec-02  | 20-Dec-02   | 20-Dec-02   | 24-Oct-03  | 28-Oct-02<br>11-Jul-03  | 23-Oct-03  |
| Country<br>Name       | Patent<br>Cooperation<br>Treaty  | United States  |   | United States  | United States  | United States   | United States   | Patent<br>Cooperation<br>Treaty                    | United States<br>United States  | Patent<br>Cooperation<br>Treaty  |
| Owner                 | AT&T Wireless  | AT&T Wireless  |   | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                                      | AT&T Wireless<br>AT&T Wireless  | AT&T Wireless  |
| Patent<br>Number      |  |  |   |  |  |   |   |  | ·   |  |
| Application<br>Number | PCT/US03/18449   | 10/324984  |   | 10/325566  | 10/325270  | 10/325032   | 10/325322   | PCT/US03/35439                                     | 10/281651   | PCT/US03/33513   |
| Docket<br>Number      | 655.PCT  | 655.US   |   | 655.US1  | 655.US2  | 655.US3   | 655.US4   | 658.PCT  | 658.US<br>665.US  | 668.PCT  |

|            | •               |         |                 |                 |             |         |                             |
|------------|-----------------|---------|-----------------|-----------------|-------------|---------|-----------------------------|
|            |                 |         |                 | Country         | Application | Grant   |                             |
| Docket     | Application     | Patent  |                 | Name            | Date        | Date    | anil                        |
| Niembor    | Nimber          | Number  | Owner           | 2000            |             |         | System and Method for       |
| Nullibei   |                 |         |                 | -               |             |         | Integrating Local-Area and  |
| •          |                 |         |                 |                 |             |         | Wide-Area Wireless          |
|            |                 |         |                 | United Chafee   | 20-Dec-02   |         | Networks                    |
|            | 221138          |         | AT&T Wireless   | OTHER STATES    |             |         | System and Method for       |
| 568.US     | 251136          |         |                 | Datant          |             |         | Content Delivery Using      |
|            |                 |         |                 | Conoration      | •           | •       | Alternate Data Paths in a   |
| •          |                 |         |                 | Cooperation     | 22.Oct-03   |         | Wireless Network            |
| 10000      | DCT# 1503/33593 |         | AT&T Wireless   | Ireary          | 20.000      |         | System and Method for       |
| 669.PC1    | 200000000       |         |                 |                 |             |         | Content Delivery Using      |
|            |                 |         |                 |                 |             |         | Alternate Data Paths In a   |
|            |                 |         |                 |                 |             |         | Wireless Network            |
|            |                 |         | AT&T Wireless   | United States   | 20-Dec-02   |         | System and Method for       |
| 669.US     | 10/324613       |         |                 |                 | ٠           |         | Delivering Data Services In |
|            |                 |         |                 | Patent          |             |         | Integrated Wireless         |
|            |                 |         |                 | Cooperation     |             |         | Notworks                    |
|            |                 |         | ATRT Mireless   | Treaty          | 23-Oct-03   |         | Networks And Mothor for     |
| 670.PCT    | PCT/US03/33594  |         | Atal Wildias    |                 |             |         | System and interior for     |
|            |                 |         |                 |                 |             |         | Delivering Data Services    |
|            |                 |         |                 |                 |             |         | Integrated Wireless         |
|            |                 |         |                 | Sofeto Petici   | 20-0-0-02   |         | Networks                    |
| 211023     | 10/324667       |         | AT&T Wireless   | United States   | 2000-07     |         | Improved Delivery of        |
| 20:040     |                 |         |                 | 1 Inited States | 02-Jan-03   |         | Network Services            |
| 879115     | 2428042         |         | AT&T Wireless   | Office Crates   |             |         | Improved Delivery of        |
| 20.50      |                 |         |                 |                 |             | _       | Network Services            |
|            | 2700773         |         | AT&T Wireless   | United States   | 02-Jan-03   |         | Improved Delivery of        |
| 680.US     | 2420113         |         |                 |                 | 0, 20, 00   |         | Network Services            |
| 9          | 00000           | <u></u> | AT&T Wireless   | United States   | 02-Jan-20   |         | To view Delivery of         |
| 681.US     | 0000/67         |         |                 |                 | ;           | <u></u> | Newark Services             |
|            | 2644430         | :       | - AT&T Wireless | United States   | 02-Jan-03   |         |                             |
| 682.US     | 52/4139         |         |                 |                 |             |         |                             |
|            |                 |         |                 |                 |             |         | Network Services            |
|            |                 | -       | AT&T Wireless   | United States   | 07-Apr-03   |         | Improved Delivery of        |
| 685.US     | 70/41/0002      |         |                 | 001010          | 07 Apr.03   |         | Network Services            |
| 011000     | 10/410663       |         | AT&T Wireless   | United States   | 20-104-10   |         | of second common of the     |
| 686.03     | 2001101         |         |                 |                 |             |         | One Button Access to        |
| •          | -               |         |                 |                 |             |         | Remote Control Device       |
|            |                 |         | AT&T Wireless   | United States   | 07-Jul-03   |         |                             |
| 690.US     | 10/612970       |         |                 |                 |             |         | Automatic Device            |
|            | · -             |         |                 |                 |             |         | Configuration to Receive    |
|            |                 | ·<br>•  | AT&T Wireless   | United States   | 15-Sep-03   | -       | Identification of SIM Based |
| 691.US     | 2006188         | -       |                 |                 | 27 000 04   |         | Device                      |
| 691 US.CP1 | 10/833412       |         | AT&T Wireless   | United States   | 1 21-Mpi-04 | ļ.<br>- |                             |
|            |                 |         |                 |                 |             |         |                             |

|                       |  |  |   |   |  |   |   |   |  |  |   | <u> </u>  | · · · · · · · · · · · · · · · · · · ·  |
|-----------------------|--|--|---|---|--|---|---|---|--|--|---|---|--|
| Title                 | Distributed Profile Storage<br>and Management in a<br>Telecommunication<br>Network | Application of Dynamic Profiles to the Allocation and Configuration of Network Resources | Device and Method for<br>Improved Text Entry on an<br>Alphanumeric Keypad | Highly Bandwidth-Efficient Communications | Highly Bandwidth-Efficient<br>Communications | Highly Bandwidth-Efficient Communications | Highly Bandwidth-Efficient Communications | Highly Bandwidth-Efficient Communications | Priority Messaging Method for a Discrete Multitone Spread Spectrum Communications System | Method of Polling Second<br>Stations for Functional<br>Quality and Maintenance<br>Data in Discrete Multitone<br>Spread Spectrum<br>Communications System | Vertical Adaptive Antenna<br>Array for a Discrete<br>Multitone Spread Spectrum<br>Communications System | Vertical Adaptive Antenna<br>Array for a Discrete<br>Multitone Spread Spectrum<br>Communications System | Vertical Adaptive Antenna<br>Array for a Discrete<br>Multitone Spread Spectrum |
| <b>Grant</b> Date     |  |  |   |   |  |   | 19-Mar-02                                 |   | 16-Sep-03  | 12-Nov-02  | 29-Jul-03   | 24-Jun-03   | 24-Aug-04  |
| Application<br>Date   | 16-Jun-03  | 16-Jun-03  | 27-Jun-03   | 24-Feb-98                                 | 24-Feb-98                                    | 24-Feb-98                                 | 18-Dec-97                                 | 03-Aug-01                                 | 28-Nov-00  | 28-Nov-00  | 05-Aug-98   | 10-Dec-01   | 08-May-03  |
| Country               | United States  | United States  | United States   | Canada                                    | European Patent<br>Convention                | Japan                                     | United States                             | United States                             | United States  | United States  | United States   | United States   | United States  |
| Owner                 | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless                             | AT&T Wireless                                | AT&T Wireless                             | AT&T Wireless                             | AT&T Wireless                             | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless  |
| Patent<br>Number      |  |  |   |   |  |   | 6359923                                   |   | 6621851  | 6480522  | 9/2003  | 6584144   | 6782039  |
| Application<br>Number | 1027337  | 838873   | 10/609043   | 2283859                                   | 98910043.3                                   | 10-536984                                 | 08/993721                                 | 547744                                    | 197842   | 198207   | 09/128738   | 10/017903   | 10/435304  |
| Docket<br>Number      | ļ  |  | 696.US  | 700.CA                                    | 700.EPC                                      | 700.JP                                    | 700.US.C1                                 | 700.US.C1D01                              | 700.US.C1D15   | 700 US.C1D16   | <del> </del>  |   | 701.US.C1(5)   |

|              |             |          |   | •               | Ameliantion         | Grant      |                            |
|--------------|-------------|----------|---|-----------------|---------------------|------------|----------------------------|
| Docket       | Application | Patent   | 100   | Country         | Application<br>Date | Date       | Title                      |
| Number       | Number      | Number   | OWIE  |                 |                     |            | Communications System      |
| -            |             |          |   |                 |                     |            | Supplied Adopting Appendix |
|              |             |          |   |                 |                     |            | Array for a Discrete       |
|              |             |          | •   |                 |                     |            | Multitone Spread Spectrum  |
|              |             |          |   | Haitod Chatoe   | 20-hil-04           |            | Communications System      |
| 701.US.C1(6) | mailed      |          | AT&T Wireless   | OIIIIEU OIBIES  |                     |            | Method for Frequency       |
| T            |             |          |   |                 |                     |            | Division Duplex            |
|              |             |          | ATOT Missions   | Canada          | 03-Feb-98           | 09-Apr-02  | Communications             |
| 702.CA       | 2278852     | 2278852  | Alai Wireless   | 200100          |                     |            | Method for Frequency       |
|              |             | •        |   | Furopean Patent |                     |            | Division Duplex            |
|              |             |          | ATOT Mirotoco   | Convention      | 03-Feb-98           |            | Communications             |
| 702.EPC      | 98908475.1  |          | AIGI WIIGIGSS   |                 |                     |            | Method for Frequency       |
|              |             |          |   |                 | •                   |            | Division Duplex            |
|              | 000761      |          | AT&T Wireless   | Japan           | 03-Feb-98           |            | Mathed for Fraguesia       |
| 702.JP       | 10-534898   |          |   |                 |                     |            | Division Duplex            |
|              |             |          |   | •               | 00 1-1              | 02-4110-02 | Communications             |
| 710 001      | 007160      | 209442   | AT&T Wireless   | Mexico          | U3-rep-90           | 20-Rnu-20  | Method for Frequency       |
| ruz.ma       | 201 166     |          |   |                 |                     |            | Division Duplex            |
|              |             |          | •   | 00000           | 06 Eob. 07          | 03-A110-99 | Communications             |
| 702.US       | 08/796584   | 5933421  | AT&T Wireless   | United States   | 10-1-00             | 82         | Method for Frequency       |
|              |             |          |   |                 |                     |            | Division Duplex            |
|              |             |          | 4 + 6 + 18 // - | Linited States  | 19-Apr-99           | 06-May-03  | Communications             |
| 702.US.C1    | 09/294174   | 6260209  | AIGI Wireless   | Ollico Ollico   |                     |            | Method for Frequency       |
|              | ٠           |          |   |                 |                     |            | Division Duplex            |
|              |             |          | ATOT Miroloce   | United States   | 07-Mar-03           |            | Communications             |
| 702.US.C1(1) | 10/383976   |          | AI &I WIIEIESS  |                 |                     |            | Remote Wireless Unit       |
|              |             |          |   |                 |                     |            | Having Reduced Power       |
|              |             | 777.000  | AT&T Wireless   | United States   | 06-Feb-97           | 04-Jul-00  | Operating Mode             |
| 703.US       | 08/796586   | \$11C904 |   |                 |                     |            | Kemote Wireless Unit       |
|              |             |          |   |                 |                     |            | Having Reduced Fower       |
|              |             | 00000    | AT&T Wireless   | United States   | 30-Dec-98           | 04-Apr-00  | Operating Mode             |
| 703.US.D1    | 09/222895   | 5047,200 | 200   |                 |                     |            | Out of Change Cyclic       |
|              |             |          |   |                 |                     |            | Redundancy Code Menior     |
|              |             |          |   |                 |                     |            | Tor a Discrete Montrolle   |
|              |             |          | :   |                 | :                   |            | Spread Specifical          |
|              | •           | 97070    | AT&T Wireless   | Canada          | 24-Feb-98           | 01-Apr-03  | Colfination Carlo          |
| 704.CA       | 2281818     | 0191977  | 2000111   |                 |                     |            | Out of Channel Cycle       |
|              |             |          |   |                 |                     |            | for a Discrete Multitone   |
|              |             |          |   | Cmpoon Datent   |                     |            | Spread Spectrum            |
|              |             |          |   | Convention      | 24-Feb-98           |            | Communications System      |
| 704.EPC      | 98911401.2  |          | AT&I WIREIESS   | CONTROL         |                     |            |                            |
|              |             |          |   |                 |                     |            |                            |

| Docket    | Application | Patent  |               | Country       | Application | Grant                                    |  |
|-----------|-------------|---------|---------------|---------------|-------------|--|--|
| Number    | Number      | Number  | Owner         | Name          | Date        | Date                                     | Title  |
|           |             |         |               |               |             |  | Out of Channel Cyclic<br>Redundancy Code Method<br>for a Discrete Multitone                      |
| 704.MX    | 997730      | 209008  | AT&T Wireless | Mexico        | 24-Feb-98   | 17-Jul-02                                | Spread Spectrum<br>Communications System   |
| 705.US    | 08/803833   | 5896425 | AT&T Wireless | United States | 24-Feb-97   | 20-Apr-99                                | Non-Uniformly Spaced Tones for Synchronization Waveform  |
| 707.US    | 08/806508   | 5864543 | AT&T Wireless | United States | 24-Feb-97   | 26-Jan-99                                | Transmit/Receive<br>Compensation   |
| 707.US.C1 | 09/095748   | 6175555 | AT&T Wireless | United States | 11-Jun-98   | 16-Jan-01                                | Transmit/Receive<br>Compensation   |
|           |             |         |               |               |             |  | Method for Linearization of  |
|           |             |         |               |               |             |  | Electronics Using  |
| 708.US    | 08/804615   | 5872814 | AT&T Wireless | United States | 24-Feb-97   | 16-Feb-99                                | T/R Compensation Pilot<br>Signals  |
| 10        |             |         |               |               |             |  | Method for Gaining Access to a Shared Medium Which   |
| 709.US    | 08/806507   | 6002664 | AT&T Wireless | United States | 24-Feb-97   | 14-Dec-99                                | Improves Over the Slotted<br>Aloha Scheme  |
| 710.US    | 08/804614   | 5889814 | AT&T Wireless | United States | 24-Feb-97   | 30-Mar-99                                | Transmit/Receive<br>Compensation for a Dual<br>FDD/TDD Architecture                              |
| 711.US    | 08/803832   | 5909641 | AT&T Wireless | United States | 24-Feb-97   | 01-Jun-99                                | Transml/Receive Switch   |
| 213118    | 09/80/618   | 6003700 | A TOTA        | Palado Padas  | 50          | 3  | Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications |
|           |             |         |               |               | 16-02-1-47  | 8-10-2-10-2-10-2-10-2-10-2-10-2-10-2-10- | Adaptive Weight Update Method and System for a Discrete Multitone Spread                         |
| 713.US.C1 | 09/999048   |         | AT&T Wireless | United States | 15-Nov-01   |  | Spectrum Communications<br>System  |
|           |             |         |               |               |             |  | Adaptive Weight Update Method for a Discrete Multitone Spread Spectrum                           |
| 713.US.C2 | 09/299079   | 6160839 | AT&T Wireless | United States | 26-Apr-99   | 12-Dec-00                                | Communications System  |
|           |             |         |               | -             |             | , -                                      |  |

|  |               |            |               |                 |             |           |                             | _        |
|--|---------------|------------|---------------|-----------------|-------------|-----------|-----------------------------|----------|
|  |               |            |               | Country         | Application | Grant     | ·<br>                       |          |
| Docket                                 | Application   | Patent     |               | Name            | Date        | Date      | Title                       | 7        |
| Number                                 | Number        | Number     | Owner         | 2000            |             |           | Adaptive Weight Update      |          |
|  |               |            |               | _               |             | •         | Method and System for a     |          |
|  |               |            |               | _               |             |           | Discrete Multitone Spread   | _        |
|  |               |            |               |                 |             |           | Spectrum Communications     | <u>ي</u> |
|  |               |            |               | I Inited States | 31-Oct-00   | 18-Jun-02 | System                      | ٦        |
| 713.US.C2C1                            | 09/699361     | 6408016    | AT&T Wireless | Ollifed Oraros  |             |           | Inventory Pipeline          |          |
|  |               |            |               | 1 Inited Chafae | 01-Mav-97   | 16-Mar-99 | Management System           | 7        |
| 715.US                                 | -646995       | 5884300    | AT&T Wireless | Ullieu States   | 2 6         |           | FDD Forward Link            |          |
|  |               |            |               |                 |             |           | Beamforming Method for a    | , o      |
| •                                      |               |            |               |                 |             | •         | FDD Communications          |          |
|  |               |            | . !           | 9               | 22.Feb.00   | 31-Dec-02 | System                      | 7        |
| 717 CA                                 | 2262358       | 2262358    | AT&T Wireless | Canada          | 20-120      |           | FDD Forward Link            |          |
|  |               |            |               |                 |             |           | Beamforming Method for a    | <u> </u> |
| _                                      | •             |            |               | European Patent | •           |           | FDD Comminications          |          |
|  |               |            |               | Composition     | 25-Feh-99   | 04-Aug-04 | System                      | _        |
| 717 FPC                                | 99301378.8    | 940934     | AT&T Wireless | COLLABOLIOLI    | 20 00 107   |           | FDD Forward Link            |          |
|  |               |            |               |                 |             |           | Beamforming Method for a    | r a      |
|  |               |            |               |                 |             |           | FDD Communications          |          |
|  |               |            |               | Chatan Chatan   | OS.Mar.08   | 17-Oct-00 | System                      | _        |
| 247110                                 | 1 09/035286   | 6134261    | AT&T Wireless | United States   | U3-18181-50 |           | Near-Optimal Low-           |          |
| 11:03                                  | 03/03/20      |            |               |                 |             |           | Complexity Decoding of      | _        |
| •                                      |               |            |               |                 |             |           | Space-Time Codes for        |          |
|  |               |            |               |                 |             |           | Fixed Wireless              |          |
|  |               | *          | . •           |                 | 40.707.08   | 06-Aug-02 | Applications                | ٦        |
| 720 CA                                 | 2255464       | 2255464    | AT&T Wireless | Canada          | 10-0000     |           | Near-Optimal Low-           |          |
| 77.07                                  | 2533101       |            |               |                 |             |           | Complexity Decoding of      | _        |
|  | -             |            |               |                 |             |           | Space-Time Codes for        |          |
|  |               |            |               |                 |             |           | Fixed Wireless              |          |
|  |               |            |               |                 | •           |           | Applications                | _        |
|  | 90 6 900000   | 08124231 6 | AT&T Wireless | Germany         | 17-Dec-98   |           | Most Ontimal Low-           |          |
| 720.DE                                 | 69823326.3-00 | 3016463130 |               |                 |             |           | Journal Charles Decoding of |          |
|  |               | •          |               | -               | ٠           |           | Space-Time/Codes for        |          |
|  |               |            |               | . 1             |             |           | Fixed Wireless              |          |
|  | -             |            |               | European Patent | 90          | 21-Anr-04 | Applications                |          |
|  | . A 50040400  | 938194     | AT&T Wireless | Convention      | 1/-060-90   | 200-17    | Near-Optimal Low-           |          |
| /20.EPC                                | 30124231.0    |            |               |                 |             |           | Complexity Decoding of      | <u> </u> |
|  |               |            |               |                 |             |           | Space-Time Codes for        |          |
|  |               |            |               | -               |             |           | Fixed Wireless              |          |
| •                                      |               |            |               | European Patent | 90 - 0      | · -       | Applications                |          |
| יייייייייייייייייייייייייייייייייייייי | A000218 Q     | :          | AT&T Wireless | Convention      | 17-080-90   |           | Near-Optimal Low-           |          |
| /20.EFC.D1                             | 2000          |            |               |                 | •           |           | Complexity Decoding of      |          |
|  |               | -          |               |                 | .•          |           | Space-Time Codes for        | _        |
|  |               |            |               | ÷               |             |           | Fixed Wireless              |          |
|  |               |            |               |                 | 47.Dec.08   |           | Applications                |          |
| 720.FR                                 | 98124231.6    |            | AT&T Wireless | France          | 2000        |           |                             | ·        |
|  |               |            |               |                 | ٠           |           |                             |          |

|                       |   |   |   |   | <u> </u>  | İ   |   |   | Γ   |                                       | . ]                                     |
|-----------------------|---|---|---|---|---|---|---|---|---|---------------------------------------|---|
| Tifle                 | Secoding of<br>Codes for<br>Ss  | Codes for Ss  | Codes for ss  | I Low-<br>Decoding of<br>Codes for<br>Ss  | I Low-<br>Decoding of<br>Codes for<br>Ss  | Low-<br>ecoding of<br>Codes for<br>ss   | Olversity<br>F Wireless<br>ons                              | iversity<br>r Wireless<br>ons                               | iversity<br>r Wireless<br>ons                               | ireless<br>ons                        | Wireless<br>ons                         |
| <b> </b>              | Near-Optimal Low-<br>Complexity Decoding of<br>Space-Time Codes for<br>Fixed Wireless | Near-Optimal Low-Complexity Decoding of Space-Time Codes for Fixed Wireless | Near-Optimal Low-<br>Complexity Decoding of<br>Space-Time Codes for<br>Fixed Wireless | Near-Optimal Low-<br>Complexity Decoding of<br>Space-Time Codes for<br>Fixed Wireless<br>Applications | Near-Optimal Low-<br>Complexity Decoding of<br>Space-Time Codes for<br>Fixed Wireless<br>Applications | Near-Optimal Low-<br>Complexity Decoding of<br>Space-Time Codes for<br>Fixed Wireless | Transmitter Diversity Technique for Wireless Communications | Transmitter Diversity Technique for Wireless Communications | Transmitter Diversity Technique for Wireless Communications | Sender for Wireless<br>Communications | Receiver for Wireless<br>Communications |
| Grant                 |   |   | 13-Feb-01   | 22-Oct-02   | 25-May-04   |   |   |   |   | 13-Jun-02                             | 13-Jun-02                               |
| Application<br>Date   | 17-0-08   | 16-Dec-98   | 21-Apr-98   | 17-Oct-00   | 03-Sep-02   | .04-Mav-04  | 31-Aug-98   | 31-Aug-98   | 27-May-03   | 31-Aug-98                             | 31-Aug-98                               |
| Country               | Great Britain   | Mexico  | United States   | United States   | United States   | United States   | Canada  | Canada  | Chile   | Germany                               | Germany                                 |
| Owner                 | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                         | AT&T Wireless                           |
| Patent<br>Number      |   |   | 6188736   | 6470043   | 6741635   |   | -   |   |   | 29824763.1                            | 29824760.7                              |
| Application<br>Number | 98124231.6  | 9810841   | -610075   | 09/690542   | 10/234407   | 10/838553   | 2303388   | 2405875   | 1060-2003   | 29824763.1                            | 29824760.7                              |
| Docket<br>Number      | 720.GB  | 720.MX  | 720.US  | 720.US.C1   | 720.US.C1(1)  | 720.US.C1(2)  | 721.CA  | 721.CA.D1   | 721.CL  | 721.DE1                               | 721.DE2                                 |

|                                  |            |                     |               | Country         | Application | Grant     |  |
|----------------------------------|------------|---------------------|---------------|-----------------|-------------|-----------|--|
|                                  |            |                     | 1             | Name            | Date        | Date      | Title  |
| Number Number Owner              |            | Owne                |               | Maille          |             |           | System for Wireless                          |
|                                  |            | <br>  ATRT Wireless |               | Germany         | 31-Aug-98   | 13-Jun-02 | Communications                               |
| 29824761.5 29024701.3            |            |                     |               |                 |             | 60 !!     | Receiver for Wireless                        |
| 29824765.8 AT&T Wireless         |            | AT&T Wireles        | S             | Germany         | 31-Aug-98   | 13-Jun-02 | Electronic Circuit for a                     |
|                                  |            |                     |               | No succession   | 31-Aug-98   | 13-Jun-02 | Sender for will eless<br>Communications      |
| 29824762.3 AT&T Wireless         | 1          | AT&T Wire           | ess           | Cermany         |             |           | Transmitter Diversity Technique for Wireless |
| AT&T Wireless                    |            | AT&T Wire           | less          | Germany         | 31-Aug-98   | 25-Jun-03 | Communications<br>Transmitter Diversity      |
|                                  |            |                     |               | European Patent | 31.Aug.08   | 25-Jun-03 | Technique for Wireless<br>Communications     |
| 98944605.9 1016228 AT&T Wireless |            | AT&T Wire           | less          | Convention      | 200         |           | Transmitter Diversity                        |
| application to the               | SINAL POTA | TOTA WILL           |               | European Patent | 31-Aug-98   |           | Communications                               |
| 3010810.4                        | Alai Wile  | Alg.                | Segi          |                 |             |           | Transmitter Diversity Technique for Wireless |
|                                  |            | AT&T Wire           | ess           | France          | 31-Aug-98   | 25-Jun-03 | Communications                               |
| 98944605.9 1016228               |            |                     |               |                 |             |           | Technique for Wireless                       |
| AT&T Wireless                    |            | AT&T Wire           | less          | Great Britain   | 31-Aug-98   | 25-Jun-03 | Communications<br>Transmitter Diversity      |
|                                  |            |                     | •             |                 |             | 10-Dec-03 | Technique for Wireless<br>Communications     |
| 880968 PI3127 AT&T Wireless      |            | AT&T Wi             | reless        | Georgia         | 22-102-01   |           | Transmitter Diversity                        |
| -                                |            |                     |               |                 | 24-Feb-04   |           | Communications                               |
| 4101312.5 AT&T Wireless          | AT&T WI    | AT&T WI             | reless        | Sinov BuoL      |             |           | Transmitter Diversity                        |
|                                  |            | 1                   |               | Moving A        | 31-Aug-98   |           | Communications                               |
| 2573 A.I.G.I. WITEHESS           | AI&I WII   | AI&I WII            | eless         | 200             |             |           | Transmitter Diversity Technique for Wireless |
|                                  |            |                     | 9             | United States   | 07-Mav-98   | 06-Feb-01 | Communications                               |
| 2479512 6185258 A1&I WIRELESS    |            | AI&I WIL            | eless         |                 |             |           | Transmitter Diversity                        |
|                                  |            | <u>.</u>            |               | Sofoto Patient  | 05-00-00    | 10-Aug-04 | Communications                               |
| 2686604 6775329 AT&T Wireless    |            | AT&T Wir            | eless         | United States   | 2000        |           | Transmitter Diversity                        |
|                                  |            |                     |               | Cotton Ctaton   | 22-Jun-04   |           | Communications                               |
| 10/873567 AT&1 V                 | AT&I       | AT&I                | AT&1 Wireless | OIIICO OIIICO   |             |           | Method and Apparatus for                     |
| 2022958 6553237 AT&T V           |            | AT&T                | AT&T Wireless | United States   | 02-Dec-98   | 22-Apr-03 | Remote Unit Passivation                      |
|                                  |            | · ·                 |               |                 |             |           |  |

| Docket     | Application       | Patent  |                    | Country         | Application | Grant     | <del></del>                                       |          |
|------------|-------------------|---------|--------------------|-----------------|-------------|-----------|---|----------|
| Number     | Numper            | Number  | Owner              | Name            | Date        | Date      | Title   |          |
|            |                   |         |                    |                 |             |           | Method for Synchronous                            | snc      |
| 723.US     | 2023689           |         | ATRT Wireless      | United States   | 02-Dec-98   |           | Encryption Over a                                 | <u>E</u> |
|            |                   |         |                    |                 |             |           | Method for Estimating                             |          |
|            |                   | •       |                    |                 |             |           | Changes in Product Life for                       | ife for  |
| 729.US     | 09/557672         |         | AT&T Wireless      | United States   | 25-Apr-00   |           | a Redesigned Product                              | 71       |
|            |                   |         |                    |                 |             |           | Low Complexity Maximum                            | mnw.     |
| . :        | -                 |         | . :                |                 |             |           | Likelihood Detection of                           | ٥ţ       |
|            | •                 |         |                    |                 | •           |           | Concatenated Space                                |          |
| 731.CA     | 2276207           | 2276207 | AT&T Wireloss      | Canada          | 16.001.08   | 18 Feb 03 | Codes for Wireless                                |          |
|            |                   | 25.125  | 2000               | Cariaca         | 06-150-0-1  | 10-1-03   | Applications i                                    | 1        |
|            | ٠                 |         | ٠                  |                 |             |           | Low Complexity Maximum                            |          |
|            |                   |         |                    | •               | •           | •         | Concatenated Space                                | <br>5    |
|            |                   |         |                    |                 |             |           | Codes for Wireless                                |          |
| 731.CA.D1  | 2411286           |         | AT&T Wireless      | Canada          | 16-Oct-98   |           | Applications                                      | -        |
|            |                   |         |                    | ·               |             |           | Low Complexity Maximum                            | mum      |
|            |                   |         |                    |                 |             |           | Likelihood Detection of                           |          |
|            |                   |         |                    | Fironoon Datent |             |           | Concatenated Space                                |          |
| 731 EDC    | 09052654 6        | -       | A T O T 14/1-1-1-0 | Conopean ratem  | 00 1-0 01   |           | Codes for Wireless                                |          |
| יטוייני    | 3030004:0         |         | Ala Wireless       | Convention      | 18-CG-98    |           | Applications                                      |          |
|            |                   |         |                    | -               |             |           | Low Complexity Maximum                            | mnw ,    |
|            |                   |         |                    |                 |             |           | Concatenated Space                                | <br>5    |
|            |                   |         |                    |                 |             |           | Codes for Wireless                                |          |
| 731.JP     | 45962             |         | AT&T Wireless      | Japan           | 16-Oct-98   |           | Applications                                      | ·        |
|            |                   |         |                    |                 |             |           | Low Complexity Maximum                            | mnm      |
|            |                   |         |                    |                 |             |           | Likelihood Detection of                           | of<br>O  |
|            |                   |         | -                  |                 |             |           | Concatenated Space                                |          |
| 726        | 7,7000            |         |                    | !               |             | :         | Codes for Wireless                                |          |
| 131.101    | 2003-298814       |         | A I & I WIreless   | Japan           | 14-Aug-03   |           | Applications                                      |          |
|            |                   |         |                    |                 |             |           | Low Complexity Maximum                            | mnm.     |
|            |                   |         |                    |                 |             | :         | Cocategoated Space                                | <br>ŏ    |
|            | •                 |         |                    |                 |             |           | Codes for Wireless                                |          |
| 731.MX     | 980966            | 216468  | AT&T Wireless      | Mexico          | 16-Oct-98   | 19-Sep-03 | Applications                                      |          |
|            |                   |         |                    |                 |             |           | Low Complexity Maximum                            | E        |
| •          |                   |         | •                  | •               |             |           | Likelihood Detection of                           | 7        |
|            |                   |         | <u>.</u>           |                 |             |           | Concatenated Space                                |          |
| 724 867 74 |                   |         |                    | 1               | 00 17       |           | Codes for Wireless                                |          |
| D.VAN.IC   | T-Marzunsylons408 |         | Alai Wireless      | Mexico          | Z1-Apr-03   |           | Applications                                      |          |
|            |                   |         |                    |                 |             |           | Low Complexity Maximum<br>Likelihood Detection of |          |
| 731.US     | 09/167422         | 6501803 | AT&T Wireless      | United States   | 06-Oct-98   | 31-Dec-02 | Concatenated Space                                | 1        |
|            |                   |         |                    |                 |             |           |   |          |

| Docket         | Application | Patent  |                     | Country                                 | Application<br>Date | Grant<br>Date | Title                      |
|----------------|-------------|---------|---------------------|---|---------------------|---------------|----------------------------|
| Number         | Number      | Number  | Owner               | 211111111111111111111111111111111111111 |                     |               | Codes for Wireless         |
|                |             |         |                     |   |                     |               | Low Complexity Maximum     |
|                |             |         |                     |   |                     |               | Likelihood Detection of    |
|                |             |         |                     |   |                     |               | Concatenated Space         |
|                |             |         |                     |   |                     |               | Codes for Wireless         |
|                |             |         | ATOT Mireless       | United States                           | 03-Dec-01           |               | Applications               |
| 731.US.D1      | 1167225     | .       | Alai Wileicos       | 2000                                    |                     |               | Low Complexity Maximum     |
|                |             |         |                     | <u>.</u>                                |                     |               | Likelihood Detection of    |
|                |             |         |                     |   |                     |               | Concatenated Space         |
|                |             |         |                     |   |                     |               | Codes for Wireless         |
|                |             |         | ATRT Wireless       | United States                           | 30-Dec-02           |               | Applications               |
| 731.US.D1C1    | 1739925     |         | AIGI WIICICSS       |   |                     |               | Method for Combining       |
|                |             |         | -                   |   | •                   |               | Communication Beams in     |
|                |             |         |                     |   |                     | 00 100        | a vvireless culminamearon  |
| 01.00          | 99000000    | 6377783 | AT&T Wireless       | United States                           | 30-Apr-99           | 23-ADI-02     | System                     |
| 732.US         | 09/303200   | 2011100 |                     |   |                     |               | Method for Combining       |
|                | ٠           |         |                     |   |                     |               | Communication Beams in     |
|                |             | •       |                     |   |                     |               | a Wireless Communication   |
| 70 011 002     | 401046343   |         | AT&T Wireless       | United States                           | 16-Jan-02           |               | System                     |
| 132.03.01      | 10/040243   |         |                     |   |                     |               | Dana Asset Management      |
| 733.US         | -544696     |         | AT&T Wireless       | United States                           | 04-Jun-99           |               | Method for Location-       |
|                |             |         |                     | I faited Chates                         | 14.Son-04           |               | Based Asset Management     |
| 733.US.C1      | mailed      |         | AT&I WIFEIESS       | Ollied States                           | 200                 |               | Method and Apparatus for   |
|                |             |         |                     |   |                     |               | Vibration and Temperature  |
|                | 000744000   | G401528 | AT&T Wireless       | United States                           | 13-May-99           | 10-Dec-02     | Isolation                  |
| 734.08         | 038118/60   | 0431320 |                     |   | . !                 | 50 50         | Maximum Ratio              |
| 735115         | 09/156066   | 6459740 | AT&T Wireless       | United States                           | 17-Sep-98           | 01-00-02      | Maylmim Patio              |
| 20.55          |             |         | Section 19 February | States Patien                           | 19-Jun-02           |               | Transmission               |
| 735.US.C1      | 10/177461   |         | AIQI MIGIGOS        |   |                     |               | Method for Error           |
|                | •           |         |                     |   |                     |               | Compensation in an Orbital |
| 736116         | 1 00/321457 | 644222  | AT&T Wireless       | United States                           | 27-May-99           | 70-BDA-17     | Method for Error           |
| 20.00          |             |         |                     |   |                     |               | Compensation in an OFDM    |
|                |             |         |                     | 1 Inited States                         | 24-Jun-02           |               | System With Diversity      |
| 736.US.C1      | 10/176643   |         | AIG! WIEIGS         | DOME DOME                               |                     |               | Method for Error           |
|                |             |         |                     |   |                     |               | Compensation in an OFUM    |
| 736 118 (74/1) | -642186     |         | AT&T Wireless       | United States                           | 21-May-04           |               | System With Diversity      |
| 130.00.01      | 20170       |         | ATET Wireless       | United States                           | 24-Mar-00           |               |                            |
| 737.US         | 09/535365   |         | CODE IN THE         |   |                     |               | Method for Improving       |
| 738 AD         | 102506      |         | AT&T Wireless       | Argentina                               | 23-May-00           |               | Efficiency in a Time       |
| 1000           | 222         |         |                     |   |                     |               |                            |

| ·<br>                 |                 | · ·   |   |   | <u> </u>  | <u> </u>  | >   | 5   | Σ.  | ial for   | for   | <u>a</u> <u>ō</u>   |   |
|-----------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Title                 | Sharing Network | Method for Improving<br>Efficiency in a Time<br>Sharing Network | Automatic Gain Control Methods and Apparatus Suitable for Use in OFDM Receivers | Automatic Gain Control Methods and Apparatus Suitable for Use in OFDM Receivers | Automatic Gain Control Methods and Apparatus Suitable for Use in OFDM Receivers | Methods and Apparatus for<br>Use in Reducing Residual<br>Phase Error'in OFDM<br>Communication Signals | Methods and Apparatus for<br>Use in Reducing Residual<br>Phase Error in OFDM<br>Communication Signals | Methods and Apparatus for<br>Use in Redycing Residual<br>Phase Error in OFDM<br>Communication Signals | Detection of Cross-<br>Connection Between a |
| Grant<br>Date         | ·               |   | 09-Dec-03   |   |   |   | 26-Mar-02   | 03-Jun-03   |   |   |   |   |   |
| Application<br>Date   |                 | 18-May-00   | 18-May-00   | 16-May-00   | 24-May-00   | 11-Apr-00   | 00-un[-60   | 17-Jan-02   | 14-Apr-03   | 25-Mar-03   | 24-Aug-01   | 25-Sep-00   | 05-Feb-01                                   |
| Country<br>Name       |                 | Brazil  | Canada  | European Patent<br>Convention                                   | Mexico  | United States   | United States   | United States   | United States   | European Patent<br>Convention   | Patent<br>Cooperation<br>Treaty   | United States   | :<br>Argentina                              |
| Owner                 |                 | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                               |
| Patent<br>Number      | * •             |   | 2308963   |   |   |   | 6363127   | 6574292   |   |   |   |   |   |
| Application<br>Number |                 | 75120   | 33  | 110197.1  | 5014  | 09/546794   | -248485   | 10/051714   |   | 1964443.4   | PCT/US01/26621  | 09/670286   | 10100520                                    |
| Docket<br>Number      | -               | 738.BR  | 738.CA  | 738.EPC   | 738.MX  | 738.US  | 744.US  | 744.US.C1   | 744.US.C1(1)  | 745.EPC   | 745.PCT   | 745.US  | 747.AR                                      |

| Docket         Application         Patent         Country         Application         Title           Number         Number         Number         Number         Arist Wireless         Arist Wireless         Arist Wireless         Title           1/1/5         069522655         Arist Wireless         Arist Wireless         United States         11-Feb-00         Application of Cross-order Strends and Analytical Strends and An  |          |             |         |                 |                |                     |               |                              |
|--|----------|-------------|---------|-----------------|----------------|---------------------|---------------|------------------------------|
| Number   Number   Owner   Number   Owner   Number   Owner   Number   Owner     | Docket   | Application | Patent  |                 | Country        | Application<br>Date | Grant<br>Date | Title                        |
| 103102   AT&T Wireless   United States   11-Feb-00   AT&T Wireless   AT&T Wi   | Number   | Number      | Number  | Owner           | Name           |                     |               | Wireless Loop Network        |
| 103105   11-Feb-00   11-Feb-   |          |             |         |                 |                |                     |               | and Another Loop Interwork   |
| 103106   11-Feb-00   11-Feb-   |          |             |         |                 |                |                     |               | Detection of Cross-          |
| 103102   AT&T Wireless   United States   11-Feb-00   Applications   AT&T Wireless   AT&T Wir   |          |             |         |                 |                |                     |               | Connection Between a         |
| 103102   AT&T Wireless   United States   11-Feb-00   ali and a state   AT&T Wireless   AT&T    |          |             |         |                 |                |                     |               | Wireless Loop Network        |
| 103102   AT&TWireless   United States   11-Feb-00   AT&TWireless   |          |             |         |                 |                |                     | •             | and Another Loop Network     |
| 103102   AT&T Wireless   Argentina   21-Jun-00   Sylvanian   Argentina   21-Jun-00   Sylvanian   Argentina   Arg   |          |             |         |                 | Chatan Chatan  | 44-Foh-00           |               | at a Subscriber's Premises   |
| 103102 AT&T Wireless Argentina 21-Jun-00 Sy Machina 103105 AT&T Wireless Argentina 21-Jun-00 Sy Machina 103105 AT&T Wireless Argentina 21-Jun-00 Sy Sy Machina 21-Jun-00 Sy Sy Machina Sy  |          | 00/502655   |         | AT&T Wireless   | United States  | 11-1-0-00           |               | Apparatus and Method for     |
| 103102 AT&T Wireless Argentina 21-Jun-00 SS SS Argentina 21-Jun-00 SS S   | 47.03    | 03/302033   |         |                 |                |                     |               | Synchronization in a         |
| 103102   103102   AT&T Wireless   Argentina   21-Jun-00   O O O O O O O O O O O O O O O O O O  |          |             |         |                 |                | •                   |               | Multiple-Carrier             |
| 103102   AT&T Wireless   Argentina   21-Jun-00   OD   OD   |          |             |         |                 |                |                     |               | Communication System by      |
| 103102   AT&T Wireless   Argentina   21-Jun-00   Sy   Sy   Sy   Sy   Sy   Sy   Sy  |          |             | •       |                 |                |                     |               | Observing a Plurality of     |
| 103102 AT&T Wireless Argentina 21-Jun-00 O O O O O O O O O O O O O O O O O O   |          |             |         |                 |                | 1,1                 | •             | Synchronization Indicators   |
| 103106 AT&T Wireless Argentina 21-Jun-00 G G G G G G G G G G G G G G G G G G   | 100 074  | 103102      |         | AT&T Wireless   | Argentina      | 00-1105-12          |               | Apparatus and Method for     |
| 103106   AT&T Wireless   Argentina   21-Jun-00   O   O   O   O   O   O   O   O   O   | /48.AK   | 70.00       |         |                 |                |                     |               | Synchronization in a         |
| 103106   AT&T Wireless   Argentina   21-Jun-00   G   S   S   S   S   S   S   S   S   S   |          |             |         |                 |                |                     |               | Multiple-Carrier             |
| 103106   AT&T Wireless   Argentina   21-Jun-00   S   S   S   S   S   S   S   S   S   |          |             |         |                 |                |                     |               | Communication System by      |
| 103106   AT&T Wireless   Argentina   21-Jun-00   S   S   S   S   S   S   S   S   S   |          |             |         |                 |                |                     |               | Observing Energy Within a    |
| 103106  103105  AT&T Wireless Argentina 21-Jun-00 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  |          |             |         |                 |                | 21. lin-00          |               | Guard Band                   |
| 103105 103105 103105 103105 103105 103105 103105 103105 103105 103106 10 | 710 403  | 103106      |         | AT&T Wireless   | Argentina      | 20-1100-12          |               | System and Method for        |
| 103105 AT&T Wireless Argentina 21-Jun-00 a a AT&T Wireless United States 14-Jun-00 B S S AT&T Wireless United States 14-Jun-00 B S S AT&T Wireless United States 14-Jun-00 B S S S AT&T Wireless United States 14-Jun-00 B S S S S S S S S S S S S S S S S S S   | 140.474  |             |         |                 |                |                     |               | Synchronization in a         |
| 103105 AT&T Wireless Argentina 21-Jun-00 A A A AT&T Wireless United States 14-Jun-00   |          |             |         |                 |                |                     |               | Multiple Carrier             |
| 103105 AT&T Wireless Argentina 21-Jun-00 a a constant a |          |             |         |                 |                |                     | *             | Communication System by      |
| 103105   AT&T Wireless   Argentina   21-Jun-00   Argentina   21-Jun-00   Argentina   21-Jun-00   Argentina   Arg   |          |             |         |                 |                |                     |               | Observing a Phase-           |
| 103105   AT&T Wireless   Argentina   21-Jun-00   A   |          | -           |         | ٠               |                |                     |               | Frequency Relationship of    |
| 103105 A1&1 Wireless Agents A  |          |             |         |                 | Arronfina      | 21-Jun-00           |               | a Plurality of Pilot Signals |
| 544822         AT&T Wireless         United States         14-Jun-00         S           630289         6389087         AT&T Wireless         United States         14-Jun-00         14-May-02         E           666082         AT&T Wireless         United States         14-Jun-00         14-Jun-00         AT&T Wireless   | 749 403  | 103105      |         | AT&T Wireless   | Algentina      |                     | -             | Apparatus and Method for     |
| 544822         AT&T Wireless         United States         14-Jun-00         No. 14-Jun-00           2         630289         AT&T Wireless         United States         14-Jun-00         14-May-02         Ed. 14-Jun-00           3         666082         AT&T Wireless         United States         14-Jun-00         14-Jun-00   | (40.ANS  | 201001      |         |                 |                | · ·                 | <u>, ·</u>    | Synchronization In a         |
| 544822         AT&T Wireless         United States         14-Jun-00         C           2         630289         AT&T Wireless         United States         14-Jun-00         14-May-02         E           3         666082         AT&T Wireless         United States         14-Jun-00         14-Jun-00   |          |             | •       |                 |                |                     |               | Multiple-Carrier             |
| 544822         AT&T Wireless         United States         14-Jun-00         S           2         630289         AT&T Wireless         United States         14-Jun-00         14-May-02         E           3         666082         AT&T Wireless         United States         14-Jun-00         14-Jun-00   |          | •           |         |                 |                |                     |               | Communication System by      |
| 544822         AT&T Wireless         United States         14-Jun-00         AT           2         630289         AT&T Wireless         United States         14-Jun-00         14-May-02         E           3         666082         AT&T Wireless         United States         14-Jun-00         14-Jun-00  |          |             |         |                 |                |                     |               | Observing a Plurality of     |
| 544822 A1&1 Wireless Office Colors 2 630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 E 3 666082 AT&T Wireless United States 14-Jun-00   |          | -           |         |                 | Linited States | 14-Jun-00           |               | Synchronization indicators   |
| 630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 E AT&T Wireless United States 14-Jun-00 14-May-02 E AT&T Wireless United States 14-Jun-00   | 748.1151 | 544822      |         | AT&T Wireless   | OIIIICO OIGIGO |                     |               | Apparatus and Method for     |
| 630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 6 AT&T Wireless United States 14-Jun-00   |          |             |         |                 |                |                     |               | Synchronization in a         |
| 630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 6 AT&T Wireless United States 14-Jun-00   |          | :           |         |                 | •              |                     |               | Multiple-Carrier             |
| 630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 E AT&T Wireless United States 14-Jun-00   |          |             |         |                 | •              |                     |               | Observing Energy Within a    |
| 630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 E AT&T Wireless United States 14-Jun-00   | ,        |             |         |                 |                |                     |               | Glard                        |
| 630289 6389087 AT&T Wireless United States 14-Jun-00 127787-22 AT&T Wireless United States 14-Jun-00   | ·        |             |         |                 |                | 9                   | 14-M2V-02     | Band                         |
| 666082 AT&T Wireless United States 14-Jun-00   | 240 1163 | 630289      | 6389087 | AT&T Wireless   | United States  | 14-Jun-00           | TO (BIALLY)   | Apparatus and Method for     |
| 666082 AT&T Wireless United States 14-Jun-00   | 140.032  | 207000      |         |                 |                |                     | <i>:</i>      | Synchronization in a         |
| 666082 AT&T Wireless United States 14-Jun-00   |          |             |         |                 |                |                     |               | Multiple-Carrier             |
| 666082   |          |             |         | ATOT Mireless   | United States  | 14-Jun-00           |               | Communication System of      |
|  | 748.US3  | 666082      |         | At & I wireless | Olimon Commo   |                     |               |                              |

| 103104   | Docket     | Application     | Patent  |                     | Country         | Application | Grant     |                                    |
|--|------------|-----------------|---------|---------------------|-----------------|-------------|-----------|------------------------------------|
| 103104   AT&T Wireless   Argentina   21-Jun-00   | Mulipel    | Number          | Number  | Owner               | Name            | Date        | Date      | litie                              |
| 103104   103104   AT&T Wireless   Argentina   21-Jun-00     The correction   15-Jun-00   15-Jun-00   |            | •               |         |                     |                 |             |           | Observing a Phase-                 |
| 103104   103104   103100   1   |            |                 |         |                     |                 |             |           | a Plurality of Pilot Signals       |
| 103104   |            |                 |         |                     |                 |             |           | Methods and Apparatus for          |
| 103104   AT&T Wireless   Argentina   21-Jun-00   |            |                 |         |                     |                 |             |           | Use in Obtaining                   |
| 103104   ATÉT Wireless   Argentina   21-Jun-00   |            |                 |         |                     |                 |             |           | Frequency Synchronization          |
| 103104   103104   AT&I Wireless   Argentina   21-Jun-00  |            |                 |         |                     |                 |             |           | in an OFDM                         |
| Patent   Cooperation   15-Jun-00   15-Jun-00   15-Jun-00   15-Jun-00   17-Jun-00   17-Ju   | 749.AK     | 103104          |         | AT&T Wireless       | Argentina       | 21-Jun-00   |           | Communication System               |
| T PCT/US00/40232 AT&I Wireless Treaty Cooperation 15-Jun-00 27-Jul-04 1155142 6766714 AT&I Wireless United States 14-Jun-00 27-Jul-04 1156603 670066 AT&I Wireless United States 11-Jun-00 02-Mar-04 AT&I Wireless United States 13-Jun-00 02-Mar-04 AT&I Wireless Argentina 21-Jun-00 AT&I Wireless Argentina 21-Jun-00 AT&I Wireless Argentina 21-Jun-00 AT&I Wireless Treaty Treaty 11-Jun-00 AT&I Wireless Argentina 11-Jun-00 AT&I Wireless Argentina 11-Jun-00 AT&I Wireless Treaty 11-Jun-00 AT&I Wireless Treaty 11-Jun-00 AT&I Wireless Treaty 11-Jun-00 AT&I Wireless United States 11-Jun-00 AT&I Wireless Unit |            |                 | ٠.      |                     |                 |             |           | Methods and Apparatus for          |
| Treaty   T   |            |                 |         |                     | Patent          |             |           | Use in Obtaining                   |
| T   PCT/US0040232   AT&T Wireless   Treaty   15-Jun-00   |            |                 |         |                     | Cooperation     |             |           | in an OFDM                         |
| 1155142   5768714   AT&T Wireless   United States   14-Jun-00   27-Jul-04     1156603   6700866   AT&T Wireless   United States   14-Jun-00   02-Mar-04  | 749.PCT    | PCT/US00/40232  |         | AT&T Wireless       | Treaty          | 15-Jun-00   |           | Communication System               |
| 1155142   6768714   AT&T Wireless   United States   14-Jun-00   27-Jul-04     1156603   6700866   AT&T Wireless   United States   14-Jun-00   02-Mar-04  |            | •               |         |                     |                 |             |           | Methods and Apparatus for          |
| 1155142   6768714   AT&T Wireless   United States   14-Jun-00   27-Jul-04  |            |                 | •       |                     |                 |             |           | Use in Obtaining                   |
| 1155142         6768714         AT&T Wireless         United States         14-Jun-00         27-Jul-04           1156603         6700866         AT&T Wireless         United States         14-Jun-00         02-Mar-04           1         PCT/US01/15891         AT&T Wireless         Treaty         16-May-01         16-May-01           1         103100         AT&T Wireless         United States         13-Jun-00         14-Jun-00           12         PCT/US00/16432         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless           1D1         10120710         AT&T Wireless         United States         11-Apr-02  |            |                 |         |                     |                 |             |           | Frequency Synchronization          |
| 1156603   6700866   AT&TWireless   United States   14-Jun-00   02-Mar-04   | 749.US     | 1155142         | 6768714 | AT&T Wireless       | United States   | 14-Jun-00   | 27[11]-04 | In an OFUM<br>Communication System |
| 1156603   6700866   AT&T Wireless   United States   14-Jun-00   02-Mar-04  |            |                 |         |                     |                 |             |           | Mothode and Apparation for         |
| 1156603   6700866   AT&T Wireless   United States   14-Jun-00   02-Mar-04  |            |                 | . •     | •                   |                 |             |           | Use in Obtaining                   |
| 156603         6700866         AT&T Wireless         United States         14-Jun-00         02-Mar-04           T         PCT/US01/15891         AT&T Wireless         Treaty         16-May-01         16-May-01           1         452050         AT&T Wireless         United States         13-Jun-00         13-Jun-00           1         103100         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless           1         PCT/US00/16432         AT&T Wireless         Treaty         14-Jun-00           1D1         10/120710         AT&T Wireless         Unlited States         11-Apr-02  |            |                 |         |                     |                 |             |           | Frequency Synchronization          |
| 1156603   6700866   AT&T Wireless   United States   14-Jun-00   02-Mar-04  |            |                 |         |                     |                 |             |           | in an OFDM                         |
| Patent Cooperation   Patent Cooperation   16-May-01  | 750.US     | 1156603         | 6700866 | AT&T Wireless       | United States   | 14-Jun-00   | 02-Mar-04 | Communication System               |
| Patent Cooperation   Patent Cooperation   Patent Cooperation   16-May-01   |            |                 |         |                     |                 |             |           | Methods and Apparatus for          |
| PCT/US01/15891   AT&T Wireless   Treaty   16-May-01  |            |                 |         |                     | Datont          |             |           | Use in Obtaining Frame             |
| PCT/US01/15891   AT&T Wireless   Treaty   16-May-01     452050   AT&T Wireless   United States   13-Jun-00     103100   AT&T Wireless   AT&T Wireless   Patent   Cooperation   14-Jun-00     PCT/US00/16432   AT&T Wireless   Treaty   14-Jun-00     10/120710   AT&T Wireless   United States   11-Apr-02   |            | -               |         | •                   | Conoration      |             | _         | Synchronization in an              |
| 452050   | 751 PCT    | DCT//1904/45804 |         | A TO T IASSOCIATION | Trooperation    | 16 1/204    |           | OFDM Communication                 |
| 452050         AT&T Wireless         United States         13-Jun-00           I         103100         AT&T Wireless         Argentina         21-Jun-00           F2         PCT/US00/16432         AT&T Wireless         Cooperation (Cooperation Teaty)         14-Jun-00           I.D1         10/120710         AT&T Wireless         United States         11-Apr-02   |            | 189611060101    |         | Alai Wireless       | lieall          | 10-May-01   |           | System                             |
| 452050         AT&T Wireless         United States         13-Jun-00           I         103100         AT&T Wireless         Argentina         21-Jun-00           F2         PCT/US00/16432         AT&T Wireless         Treaty         14-Jun-00           I.D1         10/120710         AT&T Wireless         United States         11-Apr-02  |            | •               |         |                     |                 |             |           | Methods and Apparatus for          |
| 452050         AT&T Wireless         United States         13-Jun-00           I         103100         AT&T Wireless         Argentina         21-Jun-00           F2         PCT/US00/16432         AT&T Wireless         Treaty         14-Jun-00           I.D1         10/120710         AT&T Wireless         United States         11-Apr-02  |            |                 |         |                     |                 |             |           | Synchronization in an              |
| 452050   |            |                 |         |                     |                 |             |           | OFDM Communication                 |
| 103100         AT&T Wireless         Argentina         21-Jun-00           PCT/US00/16432         Cooperation         14-Jun-00           10/120710         AT&T Wireless         United States         11-Apr-02  | 751.US     | 452050          |         | AT&T Wireless       | United States   | 13-Jun-00   |           | System                             |
| 103100         AT&T Wireless         Argentina         21-Jun-00           PCT/US00/16432         Cooperation         14-Jun-00           10/120710         AT&T Wireless         United States         11-Apr-02  |            |                 |         |                     |                 |             | _         | Method and Apparatus for           |
| 103100         AT&T Wireless         Argentina         21-Jun-00           PCT/US00/16432         Cooperation         14-Jun-00           10/120710         AT&T Wireless         United States         11-Apr-02  |            | ٠               | ٠       |                     |                 |             |           | Use in Reducing Traffic            |
| 103100         AT&T Wireless         Argentina         21-Jun-00           PCT/US00/16432         PCT/US00/16432         AT&T Wireless         Treaty         14-Jun-00           10/120710         AT&T Wireless         United States         11-Apr-02  | ٠.         |                 |         |                     |                 |             | :         | Over a Communication               |
| PCT/US00/16432 Ar&T Wireless Argentina 21-Jun-00 PCT/US00/16432 Ar&T Wireless Treaty 14-Jun-00 AT&T Wireless United States 11-Apr-02   | 752 404    | 403400          |         |                     |                 |             |           | Link Used by a Computer            |
| PCT/US00/16432         AT&T Wireless         Cooperation         14-Jun-00           10/120710         AT&T Wireless         United States         11-Apr-02   | 136.AN     | 103100          |         | AT&T Wireless       | Argentina       | 21-Jun-00   |           | Network                            |
| PCT/US00/16432 Cooperation Treaty 14-Jun-00 10/120710 AT&T Wireless United States 11-Apr-02  |            |                 |         |                     | Patent          |             |           | Reverse Turineling                 |
| PCT/US00/16432         AT&T Wireless         Treaty         14-Jun-00           10/120710         AT&T Wireless         United States         11-Apr-02  |            | -               |         |                     | Conneration     |             |           | Meuroos and Apparatus for          |
| 10/120710 AT&T Wireless United States 11-Apr-02  | 752.PCT2   | PCT/US00/16432  |         | AT&T Wireless       | Treaty          | 14-Jun-00   |           | Networks   Networks                |
| ZV-IN-TITLE COME CONTROL OF THE CONT | 752.US1.D1 | 10/120710       |         | AT&T Wireless       | i Inited States | 11 Apr 02   |           | Methods and Apparatus for          |
|  |            |                 |         | THE WILLIAM         | Olinco Olarco   | 70-100-11   |           | Ose in Reducing Trainc             |

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|-------------|----------------|---------|---------------|------------------------|-------------|---------------|----------------------------|--------------|
| Docket      | Application    | Patent  |               | Country                | Application | Grant<br>Date | Title                      |              |
| Number      | Number         | Number  | Owner         | Name                   | 2180        |               | Over a Communication       | _            |
| in a second |                |         |               |                        |             |               | Link Used by a Computer    | nter –       |
|             |                |         |               |                        |             |               | Network                    | ٥            |
|             |                |         |               |                        |             |               | Methods and Apparatus to   | 5 5          |
|             |                |         |               | -                      |             | •             |                            | - a          |
|             |                |         |               |                        |             |               | Voice and right opec       |              |
|             |                |         |               |                        |             |               | Data in a Wireless         |              |
|             |                |         |               | Argenting              | 21-Jun-00   |               | Communication System       | Ēļ.          |
| 754 AR      | 103103         |         | AT&I Wireless | Algaliula<br>Algaliula |             |               | Method and Apparatus for   | s for        |
| , C.        |                |         |               |                        |             |               | Use in Communicating       | - 6          |
|             |                |         |               | Patent                 |             |               | Voice and High Speed       | ъ            |
|             | ý              |         |               | Conperation            |             |               | Data in a Wireless         |              |
|             | •              |         | •             | Took                   | 15. lim-00  |               | Communication System       | ٤            |
| 754 PCT     | PCT/US00/16700 |         | AT&T Wireless | Irealy                 |             |               | Methods and Apparatus for  | tus for      |
|             |                |         |               |                        |             |               | Use in Communicating       |              |
|             |                | •       |               |                        |             | . *           | Voice and high speed       |              |
| •           |                |         |               |                        |             | *             | Comminication System       |              |
|             |                |         | AT&T Wireless | United States          | 14-Jun-00   |               | Suctom and Method for      | j            |
| 754.US      | 1002105        |         |               |                        |             |               | Data Scrambiling to        |              |
|             |                |         |               |                        |             |               | Reduce the Crest Factor In | ctor in      |
|             |                |         |               |                        | 00 1111 00  |               | an OFDM Waveform           |              |
| 755 AD      | 103064         |         | AT&T Wireless | Argentina              | 20-300-02   |               | System and Method for      | Į            |
| 733.75      | 20001          |         |               |                        | •           |               | Data Scrambling to         |              |
|             |                |         |               | Furnnean Patent        |             |               | Reduce the Crest Factor in | actor in     |
|             |                |         |               | Compation              | 00-lun-00   |               | an OFDM Waveform           |              |
| 755.EPC     | 938236.7       |         | AT&T Wireless | COLIVEINO              |             |               | System and Method for      | <u>ğ</u> .   |
| 2001        |                |         |               | Patent                 |             | <u>.</u>      | Data Scrambiling to        |              |
|             |                |         |               | Conneration            |             |               | Reduce the Crest Factor in | actor in     |
|             |                |         | 0001-001-00-0 | Treaty                 | 00-Jun-60   |               | an OFDM Waverorm           |              |
| 755.PCT     | PCT/US00/15836 |         | AIG! WITHESS  | 755                    |             |               | System and Method for      | <br><u>5</u> |
|             |                |         |               |                        |             |               | Data Scramoling to         | - ul         |
|             |                |         |               |                        |             |               | Reduce the Crest of        |              |
|             |                | 6705758 | AT&T Wireless | United States          | 08-Jun-00   | 31-Aug-04     | System and Method for      | ō            |
| 755.US      | 1/6/79-        | 0100500 |               |                        |             |               | Data Scrambling to         |              |
|             |                |         |               |                        |             |               | Reduce the Crest Factor in | actor in     |
|             |                |         | :             | •                      |             | :             | an OFDM Waveform           | _<br>F       |
| 7551104     | - Hailed       |         | AT&T Wireless | United States          | 30-Aug-04   |               | Design for Scalable        | •            |
| /33.031     |                |         |               |                        |             |               | Network Management         | ent          |
|             |                | •       |               | . Cailean              | 15. hm-00   |               | Systems                    |              |
| 758.AR      | 102967         |         | AT&T Wireless | Algenma                |             |               | System and Method for      | d for        |
|             |                |         | :             | 2                      |             |               | Checking Service           |              |
| MT 025      | 80412312       | 163403  | AT&T Wireless | Taiwan                 | 22-Jun-00   | 06-Feb-03     | Availability               |              |
| 100.100     | 1031150        |         |               |                        | .:          |               | :                          | •            |

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|---------------------|---|---|---|---|---|---|---|--|--|--|--|---|--|
|                     | System and Method for<br>Checking Service<br>Availability | Intelligent Presentation<br>Network Management<br>Systems | Session Subscription<br>System and Method for<br>Same | Subscription-Based Billing<br>Methods and Systems for<br>Shared Network Modem<br>Pools | Subscription-Based Billing<br>Methods and Systems for<br>Shared Network Modem<br>Pools | Subscription Based Billing<br>Methods and Systems for<br>Shared Network Modem<br>Pools | Subscription Based Billing<br>Methods and Systems for<br>Shared Network Modem<br>Pools | Subscription Based Billing Methods and Systems for Shared Network Modem Pools | Synchronization of<br>Encryption in a Wireless<br>Communication System |
| Grant               | <del> </del>  |   |   |   |   |   |   | ·  |  |  | 4 .  |   |  |
| Application<br>Date | 17-Mav-00   | 24-Feb-00   | 20-Dec-00   | 16-Nov-00   | 20-Dec-00   | 20-Dec-00   | 30-Dec-99   | 22-Dec-00  | 21-Dec-00  | 27-Oct-00  | 20-Dec-00  | 20-Sep-00   | 19-Dec-01  |
| Country             | United States   | United States   | Brazil  | Canada  | European Patent<br>Convention                         | Mexico  | United States   | Argentina  | Brazil   | European Patent<br>Convention  | Mexico   | United States   | United States  |
| Owner               | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless  | AT&T Wireless   | AT&T Wireless  |
| Patent              | 6445912   |   |   | ,   |   |   |   |  |  |  |  |   |  |
| Application         |   |   | 0005942-0   | 2326572   | 311492.3  | 12896   | 09/474839   | 106901   | 0006220-0  | 309465.3   | 12898  | 09/665780   | 10/028573  |
| Docket              |   |   | 765.BR  | 765.CA  | 765.EPC   | 765.MX  | 765.US  | 768.AR   | 768.BR   | 768.EPC  | 768.MX   | 768.US  |  |

|           | •              |         |                 |  |                     |               |                            |
|-----------|----------------|---------|-----------------|--|---------------------|---------------|----------------------------|
| Docket    | Application    | Patent  |                 | Country  | Application<br>Date | Grant<br>Date | Title                      |
| Number    | Number         | Number  | Owner           | Maille   |                     |               | Data Link Layer Tunneling  |
|           |                |         |                 |  |                     |               | Technique for High Speed   |
|           |                |         |                 | •  |                     |               | Data in a Noisy Wireless   |
|           |                | 2007000 | AT&T Wireless   | United States  | 24-Oct-00           | 24-Feb-04     | Environment :              |
| 770.US    | 09/694943      | 008/800 |                 |  |                     |               | Data Link Layer 1 umemig   |
|           |                |         |                 |  |                     |               | l echnique loi nigil opeco |
|           |                |         |                 |  |                     |               | Data in a Noisy wireless   |
|           |                |         | AT&T Wireless   | United States  | 28-Jan-04           |               | Environment                |
| 770.US.C1 | 10/767246      |         | CONSTRUCTOR     |  |                     |               | Medium Access Dynamic      |
|           |                |         |                 |  |                     |               | Congestion Control         |
|           |                |         |                 |  |                     |               | Mechanism for Wireless     |
|           |                |         |                 | United States  | 21-Dec-00           | 20-Jul-04     | Data                       |
| 772.US1   | 09/745216      | 6765869 | AI&I WIREIESS   | חווובח סופונס  |                     |               | Medium Access Dynamic      |
|           |                |         |                 |  |                     |               | Congestion Control         |
|           |                |         |                 |  |                     |               | Mechanism for Wireless     |
|           |                |         | A TOT Mission   | United States  | 21-Dec-00           | 20-Jul-04     | Data                       |
| 772.US2   | 09/745219      | 6765870 | Al & I wirefess | Composition of the composition o |                     |               | Collision-Free Multiple    |
|           |                | -       |                 |  | . •                 |               | Access Reservation         |
|           |                | ,       |                 | European Patent  |                     |               | Scheme for Multi-Tone      |
|           |                |         |                 | Convention   | 11-Dec-00           |               | Modulation Links           |
| 775.EPC   | 311028.5       |         | A1&1 Wireless   | Collegian  |                     |               | Collision-Free Multiple    |
|           |                |         |                 |  |                     |               | Access Reservation         |
|           |                |         |                 |  |                     |               | Scheme for Mutti-Tone      |
|           |                |         |                 | 1 Inited States  | 18-Jul-00           |               | Modulation Links           |
| 775.US    | 09/618653      |         | AT&T Wireless   | Office States  |                     |               | Method and Apparatus for   |
|           |                | *       |                 | -  |                     |               | Efficient Sharing of       |
|           |                |         |                 |  |                     | -             | Communication System       |
|           |                |         |                 | I Inited States  | 28-Nov-00           |               | Resources                  |
| 778.US    | 228522         |         | AI&I WIREIESS   | חווופת סומוכם  |                     |               | Method and Apparatus for   |
|           |                |         |                 |  | •                   |               | Efficient Sharing of       |
|           |                |         |                 |  |                     | .•            | Communication System       |
|           |                |         |                 | 1 Inited States  | 19-Aug-04           |               | Resources                  |
| 778.US.C1 | mailed         |         | Al&I WIREIBSS   | Olined Others  |                     | <u> </u>      | A Real-Time System for     |
|           |                |         |                 |  |                     | •             | Measuring the Ricean K-    |
|           |                |         |                 | Arrentina  | 08-Feb-01           |               | Factor                     |
| 779.AR    | 10100580       |         | A1&1 Wireless   | Datont   |                     |               | A Real-Time System for     |
|           |                | ·       |                 | L'atent  |                     |               | Measuring the Ricean K-    |
|           |                | · ·     |                 | Cooperation  | 07 Eath 04          |               | Factor                     |
| 779.PCT   | PCT/US01/03854 |         | AT&T Wireless   | Irealy   | n-dal-70            |               | System and Method for      |
|           |                |         |                 | : .  |                     |               | Providing Service Provider |
|           | .:·            |         |                 |  |                     |               | Choice Over a High-speed   |
| 784 115   | 10/036315      |         | AT&T Wireless   | United States  | 26-Dec-01           |               | Data Connection            |
| 200       | 40400060       | 3=      | AT&T Wireless   | Argentina  | 13-Jul-01           |               | Adaptive Coal-Folditzatori |
| 782.AK    | 10103338       |         |                 |  |                     |               |                            |
|           |                |         |                 |  | •                   |               | -                          |

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|------------------|-----------------------|------------------|---------------|---------------------------------|---------------------|-------|--|
| Docket<br>Number | Application<br>Number | Patent<br>Number | Owner         | Country                         | Application<br>Date | Grant | Title  |
|                  |                       | •                |               |                                 |                     |       | Communication of Orthogonal Frequency Division Multiplexed Street                            |
| 782.PCT          | PCT/US01/18993        |                  | AT&T Wireless | Patent<br>Cooperation<br>Treaty | 13-Jun-01           |       | Multicarrier Transmission Using Polarized Antennae   |
| 782.US1          | 09/616128             |                  | AT&T Wireless | United States                   | 14-Jul-00           |       | Adaptive Dual-Polarization Communication of Orthogonal Frequency Division Multiplexed        |
| 784.US           | 2665785               |                  | AT&T Wireless | United States                   | 28-Feb-01           |       | Transmit Power Control for an OFDM-Based Wireless Communication System                       |
| 786.US           | 09/879350             |                  | AT&T Wireless | United States                   | 12-Jun-01           |       | Method for Shared Network Modem Dialup Intranet Access Over a Wireless Network Using         |
| 787.US           | 09/874570             |                  | AT&T Wireless | United States                   | 05-Jun-01           |       | Method of Determining RF Coverage Area in a Point-to-Multipoint Transmission System          |
| 789.AR           | 10102824              |                  | AT&T Wireless | Argentina                       | 13-Jun-01           |       | Method for Providing Transparent Public Addressed Networks Within Private Networks           |
| 789.MY           | P120012764            |                  | AT&T Wireless | Malaysia                        | 13-Jun-01           |       | Method for Providing Transparent Public Addressed Networks Within Private Networks           |
| WT.987           | 90113964              |                  | AT&T Wireless | Taiwan                          | 18-Oct-01           |       | Method for Providing<br>Transparent Public<br>Addressed Networks<br>Within Private Networks  |
| 789.US           | 722695                | •                | AT&T Wireless | United States                   | 28-Nov-00           |       | Method for Providing<br>Transparen Public<br>Addressed Networks<br>Within Private Networks   |
| 792.US           | 09/900779             |                  | AT&T Wireless | United States                   | 06-Jul-01           |       | Method for Estimating<br>Changes in Product Life<br>Resulting From HALT<br>Using Exponential |

| Docket         Application         Patent         Country         Application         Grant         Title           Number         Number         Number         Owner         Number         Acceleration/Model           Number         Number         Owner         Attat Wireless         United States         11-Jun-01         Changes in Product Use Calcium Patent Nation of Calcium Patent Nation Patent  |         |                |        |               |                  | -                   |               |   |
|--|---------|----------------|--------|---------------|------------------|---------------------|---------------|---|
| Decrete  | Docket  | Application    | Patent |               | Country          | Application<br>Date | Grant<br>Date | Title                                       |
| O99930777  | Number  | Number         | Number | Owner         | Nallic           |                     |               | Acceleration Model .                        |
| C  |         |                |        |               |                  |                     |               | Method for Estimating                       |
| O99900777  |         |                |        |               |                  |                     |               | Changes in Product Life Resulting From HALT |
| Ogi0777   AT&T Wireless   United States   06-Jul-01   To   To   To   To   To   To   To   T   |         |                |        |               | . •              |                     |               | Using Quadratic                             |
| 100627192   AT&TWITTERSS   United States   11-Jun-01   Signature   |         |                |        |               | United States    | 06-Jul-01           |               | Acceleration Model                          |
| 10/627192  | 793.US  | 22/2006/60     |        | Al&I Wireless |                  |                     |               | Turbo Channel Estimation                    |
| 10/627192   AT&T Wireless   United States   24-Jul-03   PA   |         |                |        |               | Linited States   | 11-Jun-01           |               | for OFDM Systems                            |
| S   10/627192   AT&T Wireless   United States   24-Jul-03   S   F   F   F   F   F   F   F   F   F  | 794.US  | 09/878555      |        | AT&T-Wireless | Ollifed Oraces   |                     |               | System and Method of                        |
| 10/627192   AT&T Wireless   United States   24-Jul-03   Properation   AT&T Wireless   United States   25-Jul-02   Properation   AT&T Wireless   Convention   19-May-04   Properation   AT&T Wireless   United States   22-Oct-01   Properation   AT&T Wireless   Tready   AT&T Wireless   United States   Co-Apr-02   AT&T Wireless   AT&T Wireless   Tready   ATATWIRELESS   United States   ATATWIRELESS   United States   ATATWIRELESS      |         |                |        |               |                  |                     |               | Assigning Priority to                       |
| 10627192   AT&T Wireless   United States   24-Jul-03   Signature   |         |                |        |               |                  | •                   |               | Free Multiple Access                        |
| 10/627192   A1&1 Wireless   United States   25-Jul-02   P   P   P  |         |                |        |               | United States    | 24-Jul-03           |               | Protocol                                    |
| S   60/399042   AT&T Wireless   United States   25-Jul-02   P   F   F   F   F   F   F   F   F   F  | 798.US  | 10/627192      |        | AT&T Wireless | Office Orace     |                     |               | System and Method of                        |
| Mailed   Mailed States   Mailed States   Mailed States   Mailed    |         |                | -      |               |                  |                     |               | Assigning Priority to                       |
| Mailed   M   |         |                |        |               |                  |                     |               | Free Multiple Access                        |
| Maje   |         |                |        |               | 1 Inited Chates  | 25. hil-02          | ·             | Protocol                                    |
| Mailed   AT&T Wireless   Convention   19-May-04   Orange   Convention   19-May-04   Orange   Convention   Cooperation   Cooper   | 798P.US | 60/399042      |        | AT&T Wireless | United States    | 20.00               |               | Method for Synchronization                  |
| Mailed   AT&T Wireless   Convention   Cooperation   Cooperation   AT&T Wireless   United States   22-Oct-01   AT&T Wireless   Treaty   Treaty   Cooperation   Cooperation   AT&T Wireless   United States   Cooperation   AT&T Wireless   United States   Cooperation   Cooperation   AT&T Wireless   Treaty   AT&T Wireless   Treaty   |         |                |        |               | European Paterit | 19-May-04           |               | of Received Signals                         |
| 4628         AT&T Wireless         United States         22-Oct-01         No.           PCT/US03/08721         AT&T Wireless         Treaty         21-Mar-03         0.05-Apr-02   | 802.EPC | mailed         |        | AT&T Wireless | COLIVERIMON      |                     |               | Time Synchronization                        |
| 4628         AT&T Wireless         United States         22-Oct-01         S           T         PCT/US03/08721         AT&T Wireless         Treaty         21-Mar-03         0           C         10/116160         AT&T Wireless         United States         05-Apr-02         0           AT&T Wireless         United States         24-Apr-02         0           Cooperation         Cooperation         AT&T Wireless         Treaty  |         |                | -      |               |                  |                     |               | Method for Method OFDM                      |
| 4628   |         |                | -      | AT&T Wirelace | United States    | 22-Oct-01           |               | Signal                                      |
| PCT/US03/08721 AT&T Wireless Treaty Cooperation Cooperation 21-Mar-03 Cooperation 21-Mar-03 Cooperation 21-Mar-03 Cooperation 21-Mar-03 Cooperation 21-Mar-03 Cooperation 30-Apr-02 Treaty Treaty 30-Apr-02 Treaty Treaty Cooperation Cooperation 30-Apr-02 Treaty Treaty Treaty Cooperation Cooperation 30-Apr-02 Treaty Treaty Cooperation Cooperation 30-Apr-02 Treaty Cooperation Cooperation 30-Apr-02 Treaty Cooperation | 802.US  | 4628           |        | AIGI MIGIGSS  |                  |                     |               | A Real-Time Rate Control                    |
| PCT/US03/08721   |         |                |        |               | Patent           |                     |               | Mechanism for Multi-Kate                    |
| PCT/US03/08721   |         |                |        |               | Cooperation      | 20 2011 70          |               | Wireless Networks                           |
| 10/116160 AT&T Wireless United States 05-Apr-02 -374098 AT&T Wireless United States 24-Apr-02 Cooperation AT&T Wireless Treaty 30-Apr-02   | 818 DCT | PCT/US03/08721 |        | AT&T Wireless | Ireaty           | CO-16/01-12         |               | A Real-Time Rate Control                    |
| 10/116160  AT&T Wireless United States 05-Apr-02  AT&T Wireless United States 24-Apr-02  Cooperation AT&T Wireless Treaty 30-Apr-02  | 5       |                |        |               |                  | _                   |               | Mechanism for Multi-Rate                    |
| 10/116160         AT&T Wireless         United States         05-Apr-02           -37409B         AT&T Wireless         United States         24-Apr-02           -37409B         AT&T Wireless         Cooperation           -37409B         AT&T Wireless         Treaty   |         |                |        |               | :                |                     |               | Data Transmissions in                       |
| .374098 AT&T Wireless United States 24-Apr-02 -374098 Patent Cooperation AT&T Wireless Treaty 30-Apr-02  |         |                |        | AT&T Wireless | United States    | 05-Apr-02           |               | Wireless Networks                           |
| -374098 AT&T Wireless United States 24-Apr-02 Patent Cooperation 30-Apr-02 AT&T Wireless Treaty 30-Apr-02  | 816.US  | 10/116160      |        | Aldi Wicies   |                  |                     |               | System and Method lot                       |
| -374098  |         |                |        |               |                  |                     |               | Adaptive Modulation in                      |
| -374098 Orinted States Crypton Patent Cooperation AT&T Wireless Treaty 30-Apr-02   |         |                |        |               | Chaired Chatter  | 24-Anr-02           |               | Wireless Communications                     |
| Patent Cooperation AT&T Wireless Treaty 30-Apr-02  | 817.US  | -374098        |        | AT&T Wireless | Onlied States    | 27.17.17            |               | Multi-Service Network                       |
| Patent Cooperation AT&T Wireless Treaty 30-Apr-02  |         |                |        |               | •                |                     |               | Interface Apparatus for                     |
| PCT/US02/13758 AT&T Wireless Treaty 30-Apr-02  |         |                | :      |               | Patent           |                     | ,             | Frequency-Division                          |
| PCT/US02/13758 AT&T Wireless Treaty 30-Apr-uz  |         |                | *.     |               | Cooperation      |                     |               | Communications Systems                      |
|  | 819 PCT | PCT/US02/13758 |        | AT&T Wireless | Treaty           | 30-Apr-02           |               |   |

|                       |   |  |  |                               |  |   |  |   |   |   | •   |  |
|-----------------------|---|--|--|-------------------------------|--|---|--|---|---|---|---|--|
| Title                 | Multi-Service Network Interface Apparatus for Frequency-Division Multiplexed Communications Systems | Prepaid Calling Time Processing: A Method and Apparatus for Processing Pre-Paid Calling Time in a Telephone Communication System | Prepaid Calling Time Processing: A Method and Apparatus for Processing Pre-Paid Calling Time in a Telephone Communication System | Network Protocol<br>Converter | Integration of Wireless and External Computing Devices | HTTP-Based Application<br>Fingerprinting by HTTP<br>Proxy | Terminal Device IP<br>Address Authentication | Location Announcement<br>for Mobile Devices | Method, System and<br>Apparatus for Providing<br>Wireless Identification to<br>Standard Telephone | Providing Location<br>Information for Wireless<br>Devices Using Name<br>Service | Distributed Handling of Information Directed to a Wireless Device | Method and Apparatus for Providing Quality of Service Through Multiple |
| Grant<br>Date         | 03-Feb-04   | 16-Mar-04  |  |                               |  | ·   |  |   |   |   |   |  |
| Application<br>Date   | 12-Jun-01   | 24-May-00  | 05-Jan-04  | 07-Jul-03                     | 15-Sep-03  | 05-Feb-04   | 15-Sep-03                                    | 14-Oct-03                                   | 15-Nov-03   | 14-0ct-03   | 11-Feb-04   | 12-Feb-04  |
| Country<br>Name       | United States   | United States  | United States  | United States                 | United States  | United States   | United States                                | United States                               | United States   | United States   | United States   | United States  |
| Owner                 | AT&T Wireless   | AT&T Wireless  | AT&T Wireless  | AT&T Wireless                 | AT&T Wireless  | AT&T Wireless   | AT&T Wireless                                | AT&T Wireless                               | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless  |
| Patent<br>Number      | 6687374   | 6707894  |  |                               |  |   |  |   |   |   |   |  |
| Application<br>Number | 09/879358   | 09/578031  | 10/751672  | 10/615892                     | 1964915  | 10/773555   | 1971125                                      | 10/685616                                   | 60/520073   | 10/685614   | 60/543952   | 10/776507  |
| Docket<br>Number      | 819.US.D1   | 852.US   | 852.US.C1  | 853.US                        | 854.US   | 856.US  | 857.US                                       | 862.US                                      | 863P.US   | 874.US  | 879P.US   | 880.US   |

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| ø                     | olle Devlo<br>ns, Such   | e Service<br>a Wirele   | arer Mod<br>essage  | tant<br>ion Statu<br>sting  | ns, Such<br>avices                            | Instant<br>a Wireles  | ethod for<br>tion and<br>stant-<br>arface   | eless Dev                                    | eless Dev                                   | bile IM /   | bile IM /   | unications                      | nunication Mobile Mobile IIsh a IInk n Link ase Stati   |
| Title                 | Testing for Mobile Device<br>Locator Systems, Such as<br>for E911 Phase II | Wireless Device Service<br>Activation from a Wireless<br>Device | Selection of Bearer Mode<br>According to Message<br>Characteristics | Maintaining Instant<br>Message Session Status in<br>Dynamic Operating<br>Environments | Using Emoticons, Such as for Wireless Devices | Help Buddy for Instant<br>Messaging on a Wireless<br>Device | System and Method for Data Organization and Display in an Instant-Messaging Interface | Dedicated Wireless Device<br>Business Method | Dedicated Wireless Device<br>Business Model | Always On Mobile IM Messaging Centric Wireless Device | Always On Mobile IM /<br>Messaging Centric<br>Wireless Device | Mobile Communications<br>Device | Wireless Corhmunication<br>System Having Mobile<br>Stations Establish a<br>Communication Link<br>Through the Base Station |
|                       | \$ \$ \$<br>   | P & W   | S & D   | M Q m   | Us<br>To                                      | # <b>2</b> 0  | <u> </u>  | Öő   | <u>0</u> 6                                  | ₹ž≯   | ₹Ž≯   | ŽŎ                              | <u> </u>  |
| Date                  |  |   |   |   |   | •   |   |  |   |   |   |                                 |   |
| u<br>O                |  |   |   |   |   |   |   |  |   |   |   | V                               |   |
| Application<br>Date   | 19-Aug-04  | 13-Aug-04   | 14-Sep-04   | 14-Sep-04   | 15-Jul-04                                     | 15-Jul-04   | 03-Sep-04   | 14-Sep-04                                    | 21-Jul-04                                   | 10-Sep-04   | 21-Jul-04   | 20-Sep-04                       | 30-Aug-96   |
| Country<br>Name       | tates  | tates   | tates   | itates  | tates   | states  | states  | states                                       | states                                      | states  | States  | states                          |   |
| Cou<br>Na             | United States  | United States   | United States   | United States   | United States                                 | United States   | United States   | United States                                | United States                               | United States   | United States   | United States                   | 2000  |
| ner                   | SS   | ess   | ess   | less  | less  | less  | SS  | less   | less  | less  | less  | Mess/IXI                        | itmel   |
| Owner                 | AT&T Wireless  | AT&T Wireless   | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                                 | AT&T Wireless   | AT&T Wireless   | AT&T Wireless                                | AT&T Wireless                               | AT&T Wireless   | AT&T Wireless   | AT&T Wireless/IXI               | AT&T<br>Wireless/Atmel  |
| Patent<br>Number      |  |   |   |   |   |   |   |  |   |   |   |                                 |   |
| Patent<br>Numbe       |  |   |   |   |   |   |   |  |   |   |   |                                 |   |
| tion                  |  |   |   |   |   |   |   |  |   |   |   | ·                               |   |
| Application<br>Number | mailed   | mailed  | mailed  | mailed  | 60/588307                                     | 60/588110   | mailed  | mailed                                       | 60/590185                                   | mailed  | 60/590229   | mailed                          | 300   |
| et.<br>er             |  |   | ,   |   |   |   |   |  |   |   |   | ·                               |   |
| Docket<br>Number      | 921P.US  | 922.US  | 925.US  | 926.US  | 927P.US                                       | 928P.US   | 929.US  | 930.US                                       | 930P.US                                     | 931.US  | 931P.US   | 936.US                          |   |

| 100       | Application | Patent     |                          | Country         | Application | Grant     | T.   |
|-----------|-------------|------------|--------------------------|-----------------|-------------|-----------|--|
| Number    | Nimber      | Number     | Owner                    | Name            | Date        | Date      | 25   |
| Number    |             |            | AT&T                     |                 |             |           | Wireless Communication                       |
|           | 2224067     |            | Wireless/Atmel<br>Corp.  | Canada          | 30-Aug-96   |           | System                                       |
| 10.A.D.   | 100,707     |            | AT&T<br>Wireless/Atmel   | European Patent | 30-Aug-96   |           | Wireless Communication<br>System             |
| 237.EPC   | 96946386.8  | -          | Corp.                    |                 |             |           |  |
|           |             |            | AT&T<br>Wireless/Atmel   | Japan           | 30-Aug-96   |           | Wireless Communication<br>System             |
| 237.JP    | 354166      |            | AT&T<br>Wireless/Atmel   |                 | 30-Aug-96   | 15-Jun-01 | Wireless Communication<br>System             |
| 237.MX    | 981827      | 202428     | AT&T AT&T Wireless/Atmel |                 |             |           | Wireless Communication                       |
| 237 US    | 44345       | 5911120    | Corp.                    | United States   | 08-Sep-95   | 08-Jun-99 | System                                       |
|           |             | 643649     | AT&T<br>Wireless/Atmel   | United States   | 04-Nov-98   | 11-May-04 | Cordless Cellular System                     |
| 237.US.D1 | 09/185859   | 0/33432    |                          |                 |             |           | Device and Method Used                       |
|           |             |            |                          |                 | •           |           | for Changing Wireless                        |
|           |             |            | AT&T<br>Wireless/Atmel   |                 |             | 20 Int 02 | Base Stations of Different<br>Kinds          |
| 238 CA    | 2231370     | 2231370    | Corp.                    | Canada          | 30-Aug-96   | 30-106-06 | Mobile Telecommunication                     |
|           |             |            | <del></del>              |                 |             |           | Device and Method Used for Changing Wireless |
|           |             |            | ATRT                     |                 |             |           | Communication Between                        |
|           |             |            | Wireless/Atmel           | Company         | 30-Aug-96   | 16-Jan-02 | Kinds (PBS #3)                               |
| 238.DE    | 96940621.4  | 69618604.7 | Corp.                    | Gennany         | 8           |           | Mobile Telecommunication                     |
|           |             |            |                          |                 |             |           | for Changing Wireless                        |
|           |             |            | AT&T                     | (               |             |           | Communication Between                        |
|           |             |            | Wireless/Atmel           | European Patent | 30-Aug-96   | 16-Jan-02 | Kinds  |
| 238.EPC   | 96940621.4  | 848888     | Colp.                    |                 |             |           | Mobile Telecommunication                     |
|           |             |            |                          |                 |             | · ·       | for Changing Wireless                        |
|           |             |            | AT&T                     |                 |             |           | Communication Between                        |
|           |             | 9000       | Wireless/Atmel           | France          | 30-Aug-96   | 16-Jan-02 | Kinds (PBS #3)                               |
| 238.FR    | 96940621.4  | 848880     | 4                        |                 | -2          |           |  |
|           |             |            | •                        |                 |             |           |  |

| - Docket<br>Number | Application<br>Number | Patent<br>Number | Owner                           | Country<br>Name                 | Application<br>Date | Grant<br>Date | Title  |
|--------------------|-----------------------|------------------|---------------------------------|---------------------------------|---------------------|---------------|--|
| 238.GB             | 96940621.4            | 84888            | AT&T<br>Wireless/Atmel<br>Corp. | Great Britain                   | 30-Aug-96           | 16-Jan-02     | Mobile Telecommunication<br>Device and Method Used<br>for Changing Wireless<br>Communication Between<br>Base Stations of Different<br>Kinds (PBS #3) |
| 238.JP             | 9-511293              |                  | AT&T<br>Wireless/Atmel<br>Corp. | Japan                           | 30-Aug-96           |               | A Mobile Telecommunicating Device and Method of Operation  |
| 238.MX             | 981819                | 202427           | AT&T<br>Wireless/Atmel<br>Corp. | Mexico                          | 30-Aug-96           | 15-Jun-01     | Mobile Telecommunication<br>Device and Method Used<br>for Changing Wireless<br>Communication Between<br>Base Stations of Different<br>Kinds          |
| 238.US             | -58590                | 5732360          | AT&T<br>Wireless/Atmel<br>Corp. | United States                   | 08-Sep-95           | 24-Mar-98     | Mobile Telecommunication Device and Method Used for Changing Wireless Communication Between Base Stations of Different Kinds (PBS #3)                |
| 546.EPC            | 3739732               |                  | AT&T<br>Wireless/Nortel         | European Patent<br>Convention   | 11-Feb-03           |               | Centralized Communications Network Charging Methods and Apparatus  |
| 546.PCT            | PCT/US03/04036        |                  | AT&T<br>Wireless/Nortel         | Patent<br>Cooperation<br>Treaty | 11-Feb-03           |               | Centralized Communications Network Charging Methods and Apparatus  |
| 546.US             | 10/365116             |                  | AT&T<br>Wireless/Nortel         | United States                   | 11-Feb-03           |               | Centralized Communications Network Charging Method and Apparatus   |
| 546P1.US           | 60/356579             |                  | AT&T<br>Wireless/Nortel         | United States                   | 11-Feb-02           |               | Telecommunications Network Centralized Charging System Topology  |
| 546P2.US           | 60/356578             | •                | AT&T<br>Wireless/Nortel         | United States                   | 11-Feb-02           |               | Payment Methods and Apparatus  |
| 456.US             | 09/406278             |                  | AT&T/AT&T<br>Wireless           | United States                   | 24-Sep-99           |               | Method for implementing<br>Service Logic Via<br>Database Table<br>Transversals   |

| Cockat    | Annlication    | Patent  |           | Country         | Application         | Grant<br>Date | Title  |
|-----------|----------------|---------|-----------|-----------------|---------------------|---------------|--|
| Number    | Number         | Number  | Owner     | Маше            | 200                 |               | Calling Party Pald Wireless<br>Telecommunication |
|           |                |         | AT&T/AT&T | I Inited States | 12-Jan-99           | 30-Oct-01     | System System                                    |
| 468.US    | 09/228646      | 6311053 | Wireless  | DOM:            |                     |               | Method and Apparatos to                          |
|           |                |         |           |                 |                     |               | Automatic Confirmation of                        |
|           |                |         | AT&T/AT&T |                 | DE NOV.01           |               | Delivery   |
| . 209.CN  | 1818413.8      |         | Wireless  | China P.K.      |                     |               | Method and Apparatus for                         |
|           |                |         |           |                 |                     |               | Automatic Confirmation of                        |
|           |                |         | <br>      | Furonean Patent |                     |               | Short Message Service                            |
|           |                |         | Al&I/Al&I | Convention      | 06-Nov-01           |               | Method and Apparatus for                         |
| 509.EPC   | 1990011.7      |         |           |                 |                     |               | Network-Assisted                                 |
|           |                |         |           | Patent          |                     |               | Automatic Confirmation of                        |
|           |                |         | AT&T/AT&T | Cooperation     | 100                 |               | Short Message Service<br>Delivery                |
|           | 10011100       |         | Wireless  | Treaty          | 0-NON-01            |               | Method and Apparatus for                         |
| 509.PCT   | PC1/USU1/4/231 |         |           |                 |                     |               | Network-Assisted                                 |
|           |                | :       |           |                 |                     |               | Automatic Confirmation of Short Message Service  |
|           |                |         | AT&T/AT&T |                 | 06 May 04           |               | Delivery   |
| 600163    | 10/011554      |         | Wireless  | United States   | 10-101-00           |               | Wireless Internet Call                           |
| 303.035   |                |         | AT&T/AT&T | European Patent | 42. lan-01          |               | Waiting Service                                  |
| 524 FPC   | 1100127.8      | _       | Wireless  | Convention      | 2 100-31            |               | Methods and Apparatus for                        |
|           |                |         | AT&T/AT&T | •               | 0                   |               | Conferencing                                     |
|           | 00734157       | •       | Wireless  | United States   | 00-280-LL           |               | Methods and Apparatus for                        |
| 547.03    | 0315131        |         | +0+4;+0+4 |                 |                     |               | Wireless Auto-                                   |
|           |                |         | Wireless  | United States   | 04-Sep-01           | 1             | TDMA Communication                               |
| 547.US.C1 | 09/945866      | -       | TOTALTOTA | European Patent |                     |               | System Having Enhanced                           |
|           |                |         | Wireless  | Convention      | 07-Jun-01           | -             | TDIMA Communication                              |
| 558.EPC   | 1112905./      |         | ATRT/ATRT |                 |                     | 22, hm-04     | System Having Enhanced Power Control             |
| 258       | -522416        | 6754506 | Wireless  | United States   | 16-rep-01           | 271100-77     | Method and System for                            |
| 2000      |                | •       | +0+4/+0+4 | <u> </u>        |                     |               | Users in a Multi-Networked                       |
| -         | 046040         |         | Wireless  | United States   | 07-May-01           |               | Action and Ameratus for                          |
| 567.03    | 616510-        |         | AT&T/AT&T | European Patent | 1  <br>  06-1110-01 |               | Sharing Wireless Content                         |
| 572.EPC   | 1112956.6      |         | Wireless  | Convenienci     |                     |               |  |
|           |                |         |           |                 | -                   |               |  |

|                       |  |  |   |  | ·  |  |   |  |  |  |  |
|-----------------------|--|--|---|--|--|--|---|--|--|--|--|
| Title                 | Method and Apparatus for<br>Sharing Wireless Content | Progressive Reuse Partitioning for Improved Interference Rejection in Wireless Packet Networks | Progressive Reuse<br>Partitioning for improved<br>Interference Rejection in<br>Wireless Packet Networks | Method and Apparatus for Controlling Access to a Communication Channel | Apparatus, System and<br>Method for Validating<br>Integrity of Transmitted<br>Data | Apparatus, System and<br>Method for Vaildating<br>Integrity of Transmitted<br>Data | Apparatus, System and Method for Detecting a Loss of Key Stream Synchronization in a Communication System | Apparatus, System and<br>Method for Validating<br>Integrity of Transmitted<br>Data | Apparatus, System and<br>Method for Validating<br>Integrity of Transmitted<br>Data | Apparatus, System and<br>Method for Validating<br>Integrity of Transmitted<br>Data | Airline Telephone Handset With Digital Passenger Control Functions and Video Game Controls |
| Grant<br>Date         | 200  | T. T. 2  | TT = >  | 11-Jun-02  | <b>V230</b>  |  |   |  |  |  | 10-Oct-95  |
| Application<br>Date   | 09-Mar-01  | 15-Nov-02  | 15-Nov-01   | 04-Sep-98  | 14-Sep-01  | 18-Sep-00  | 15-Feb-01   | 15-May-02  | 15-May-02  | 12-Jun-01  | 21-Apr-94  |
| Country<br>Name       | United States  | Canada   | United States   | United States  | Patent<br>Cooperation<br>Treaty  | United States  | United States   | European Patent<br>Convention  | Patent<br>Cooperation<br>Treaty  | United States  | United States  |
| Owner                 | AT&T/AT&T<br>Wireless                                | AT&T/AT&T<br>Wireless  | AT&T/AT&T<br>Wireless   | AT&T/AT&T<br>Wireless  | AT&T/AT&T<br>Wireless  | AT&T/AT&T<br>Wireless  | AT&T/AT&T<br>Wireless   | AT&T/AT&T<br>Wireless  | AT&T/AT&T<br>Wireless  | AT&T/AT&T<br>Wireless  | Claircom<br>Communications   |
| Patent<br>Number      |  |  |   | 6404753  | ·  |  |   |  |  |  | D363068  |
| Application<br>Number | 09/801635  | 2411899  | 1035707   | 09/148316  | PCT/US01/28658   | 2670533  | 09/783843   | 2731814.6  | PCT/US02/15451   | 09/879575  | 29/021670  |
| Docket<br>Number      | 572.US   | 629.CA   | 629.US  | 727.US   | 741.PCT  | 741.US   | 742.US  | 743.EPC  | 743.PCT  | 743.US   | 186.US   |

|                    |        |   |                            |                               |                  |               | •••   |
|--------------------|--------|---|----------------------------|-------------------------------|------------------|---------------|---|
| Application Patent | Patent |   |                            | Country                       | Application Date | Grant<br>Date | Title   |
| Number Number      | Number |   | Owner                      | DIE DE                        |                  |               | Airline Telephone Handset                     |
|                    |        | Clair   | Claircom                   | United States                 | 25-Apr-94        | 23-Jan-96     | Control Functions and Video Game Controls     |
| 29/021800 D36648Z  |        | 3   |                            |                               |                  |               | With Digital Passenger                        |
| Claircom Commun    |        | C Salr<br>C Salr<br>S S S S S S S S S S S S S S S S S S S | Claircom<br>Communications | United States                 | 19-Jun-95        | 18-Jun-96     | Video Game Controls                           |
| 5652792            |        | Ctal  | Claircom<br>Communications | United States                 | 07-Jun-95        | 29-Jul-97     | Cradle Cradle                                 |
| 18022              |        | CClai   | Claircom<br>Communications | Austria                       | 08-Sep-95        | 20-Oct-95     | Telephone Handset                             |
| 277925             |        | S Sal   | Claircom<br>Communications | Canada                        | 07-Sep-95        | 25-Jan-96     | Telephone Handset                             |
| M9507231.4         | 231.4  | S S   | Claircom<br>Communications | Germany                       | 07-Sep-95        | 21-Feb-96     | Telephone Handset                             |
| 954887             |        | CClair  | Claircom<br>Communications | France                        | 11-Sep-95        | 09-Feb-96     | Telephone Handset                             |
| 2050278            |        | Com   | Claircom<br>Communications | Great Britain                 | 08-Sep-95        | 25-Jan-96     | Telephone Handset                             |
| 9900591            |        | Calr  | Claircom<br>Communications | Hong Kong                     | 10-Mar-95        | 23-Jul-99     | Telephone Handset                             |
| 95 192764          | ·      | ខិនិ  | Claircom<br>Communications | South Korea                   | 07-Sep-95        | 03-Feb-97     | Telephone Handset                             |
| 59555              |        | Ç G   | Claircom<br>Communications | Sweden                        | 08-Sep-95        | 05-Jun-96     | Telephone Handset                             |
| 8 2050278          |        | පීපී  | Claircom<br>Communications | Singapore                     | 08-Sep-95        | 25-Jan-96     | Telephone Handset                             |
| 9 D371553          |        | පී පී   | Claircom<br>Communications | United States                 | 10-Mar-95        | 96-JnF-60     | Telephone Handset                             |
|                    |        | 58  | Claircom<br>Communications | European Patent<br>Convention | 08-Mar-96        |               | Handset in ah Armrest                         |
|                    |        |   | Claircom<br>Communications | Hong Kong                     | 26-Jun-98        |               | Handset in an Armrest Total Managed Telephone |
| 5627891            |        | ਹ ਹ   | Claircom<br>Communications | United States                 | 10-Mar-95        | 06-May-97     | Handset in an Amrest                          |
|                    |        |   |                            |                               |                  |               | - Main B                                      |

|  |                    |                  |                            |                                 |             | 1             |  |            |
|--|--------------------|------------------|----------------------------|---------------------------------|-------------|---------------|--|------------|
| Docket<br>Number                       | Application Number | Patent<br>Number | Owner                      | Country                         | Application | Grant<br>Date | Title  |            |
| 191.DE                                 | 29580194.8         | 29580194.8       | Claircom<br>Communications | Germany                         | 25-Apr-95   | 20-Feb-97     | Airplane Telephone   |            |
| 191.JP                                 | 527740/95          |                  | Claircom<br>Communications | Japan                           | 25-Apr-95   |               | Airplane Telephone   | $\neg$     |
| 191.KR                                 | 10-1996-705967     | 10-348946        | Claircóm<br>Communications | South Korea                     | 25-Apr-95   | 02-Aug-02     | Airplane Telephone   |            |
| 191.MX                                 | 965011             |                  | Clatrcom<br>Communications | Mexico                          | 25-Apr-95   |               | Airplane Telephone   |            |
| 191.PCT                                | PCT/US95/04821     | 95/04821         | Claircom<br>Communications | Patent<br>Cooperation<br>Treaty | 25-Apr-95   | 02-Nov-95     | Airplane Telephone   |            |
| 193.US                                 | 08/040180          | 5463678          | Claircom<br>Communications | United States                   | 26-Mar-93   | 31-Oct-95     | Credit Card Reader   | 1          |
| 195.US                                 | 08/040179          | 5410597          | Claircom<br>Communications | United States                   | 26-Mar-93   | 25-Apr-95     | Wired Seat Back Aircraft<br>Telephone Set                                | aft        |
| 196.US                                 | 08/040178          | 5394467          | Claircom<br>Communications | United States                   | 26-Mar-93   | 28-Feb-95     | Multi-Purpose Telephone<br>Strain Relief                                 | au e       |
| 198.US                                 | 08/042426          | 5455964          | Claircom<br>Communications | United States                   | 26-Mar-93   | 03-Oct-95     | Stabilization of Frequency and Power in an Airborne Communication System | E E        |
| 199118                                 | 29/007592          | D361568          | Claircom<br>Communications | United States                   | 26-Mar-93   | 22-Aug-95     | Airplane Telephone Set   | <b>10</b>  |
| 254 118 C4                             | 08/451719          | 6393281          | Claircom<br>Communications | United States                   | 26-May-95   | 21-May-02     | Seamless Hand-Off for Air-<br>To-Ground Systems                          | r Air-     |
|  |                    |                  | Claircom                   | United States                   | 30-Nov-99   |               | Mutt-Nodal Digital Telephone Distribution System                         |            |
| 259.03.060202                          |                    |                  | Claircom                   | United States                   | 14-Mar-01   |               | Multi-Nodal Digital<br>Telephone Distribution<br>System                  | _          |
| 376118 C4                              | 908063/00          | 6449287          | Claircom                   | United States                   | 08-Mar-00   | 10-Sep-02     | Short Messaging Method and System for Airborne Passengers                | 9 e        |
| 20000000000000000000000000000000000000 | 4600               |                  | Claircom                   | United States                   | 02-Aug-02   |               | Short Messaging Method<br>and System for Airborne<br>Passengers          | hod<br>Tie |
| 3/3.03.01(1)                           | 10/211929          |                  |                            |                                 |             |               | •  | _          |

|             | lications               |                | nications                           |                | inications                          | · · ·          | ıntcations                          | unications                          | unications              | inications                       |                                  | unications                       |                | latch<br>tem                             | Satch                              |               | _ | 3atch<br>stem                            | satch stem sparatus for  | 3atch<br>stem<br>sparatus for<br>screte Billing   | satch stem sparatus for crete Billing pparatus for screte Billing  | satch stem sparatus for crete Billing sparatus for screte Billing   |
|-------------|-------------------------|----------------|-------------------------------------|----------------|-------------------------------------|----------------|-------------------------------------|-------------------------------------|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|--|------------------------------------|---------------|---|--|--|---|--|---|
| <u> </u>    | Wireless Communications | Terminal       | Wireless Communications<br>Terminal |                | Wireless Communications<br>Terminal | 8              | Wireless Communications<br>Terminal | Wireless Communications<br>Terminal | Wireless Communications | Terminal Communications          | Terminal                         | Wireless Communications Terminal |                | Multithreaded Batch<br>Processing System | Multithreaded Batch                | The second of |   | Multithreaded Batch<br>Processing System | Multithreaded Batch Processing System Method and Apparatus for | Multithreaded Batch Processing System Method and Apparatus for Processing Discrete Billing Events | Multithreaded Batch Processing System Method and Apparatus for Processing Discrete Billing Events Method and Apparatus for Processing Discrete Billing | Multithreaded Batch Processing System Method and Apparatus for Processing Discrete Billing Events Method and Apparatus for Processing Discrete Billing Events |
| Grant       | Date                    | 10-Apr-95      | 29-Sep-95                           |                | 29-Sep-95                           |                | 31-Mar-95                           | 20-Apr-00                           |                         | 26-Feb-96                        | 05-Jul-95                        | 05. bd.95                        |                | 16-Mar-04                                |                                    | 10-20-01      |   | 16-Sep-97                                | 16-Sep-97  | 16-Sep-97   | 16-Sep-97  | 16-Sep-97   |
| Application | Date                    | 14-Dec-94      | 24 000 00                           | Z1-Dec-34      | 21-Dec-94                           |                | 22-Dec-94                           | 22-Dec-94                           |                         | 22-Dec-94                        | 22-Dec-94                        | 7                                | 22-Dec-94      | 04-Sep-01                                |                                    | 04-Jun-97     |   | 19-Apr-94                                | 19-Apr-94  | 19-Apr-94<br>23-Feb-95  | 19-Apr-94<br>23-Feb-95   | 19-Apr-94<br>23-Feb-95<br>19-Apr-94   |
| Country     | Name                    | Germany        |                                     | Finland        | pueluis                             |                | France                              | 10                                  | Italy                   | Japan                            | Sweden                           |                                  | Sweden         | United States                            |                                    | United States |   | United States                            | United States  | United States   | United States Canada   | United States Canada United States  |
|             | Owner                   | McCaw Cellular |                                     | Communications |                                     | Communications | McCaw Cellular<br>Communications    |                                     | ,                       | McCaw Cellular<br>Communications | McCaw Cellular<br>Communications | McCaw Cellular                   | Communications | Teleflex Information                     | Systems, Inc. Teleflex Information | Systems, Inc. |   | Teleflex Information                     | Teleflex Information<br>Systems, Inc.                          | Teleflex Information Systems, Inc.  | Teleflex Information<br>Systems, Inc.<br>Teleflex Information<br>Systems, Inc.   | Teleflex Information Systems, Inc. Teleflex Information Systems, Inc. Teleflex Information Systems, Inc.  |
| Patent      | Number                  |                | M9409857.3                          | 17729          |                                     | 17730          | 946994                              |                                     | 69309                   | 953799                           | 57901                            |                                  | 57902          |  | 6708226                            | 6332167       |   |  | 5668993  | 5668993   | 5668993  | 5668993   |
| Application | Number                  |                | M9409857.3                          | 861/94         |                                     | 862/94         | V00970                              | 100010                              | T0940000254             | 30446/1994                       | 042575                           | 0.0746                           | 942576         |  | 09/944380                          | 08/868942     |   |  | 08/229526  | 08/229526   | 08/229526  | 08/229526   |
| \$03000     | Number                  |                | 153.DE                              | 153.FL.1       |                                     | 153.FL.2       |                                     | 193.FK                              | 153.IT                  | - C. C.                          | 100.07                           | 133.35.1                         | 153.SE.2       |  | · 2001-TE001                       | 2001-TE001    |   |  | 2001-TE001   | 2001-TE001  | 2001-TE001<br>2001-TE002   | 2001-TE001<br>2001-TE002  |

| Docket<br>Number | Application<br>Number | Patent<br>Number | Owner                                 | Country<br>Name | Application<br>Date | Grant<br>Date | Title   |
|------------------|-----------------------|------------------|---------------------------------------|-----------------|---------------------|---------------|---|
| 2001-TE003       | 09/938827             | 6658488          | Teleflex Information<br>Systems, Inc. | United States   | 27-Aug-01           | 02-Dec-03     | No-Reset Option in a<br>Batching Billing System |
| 2001-TE003       | 09/340384             | 6282519          | Teleflex Information Systems, Inc.    | United States   | 28-Jun-99           | 28-Aug-01     | No-Reset Option in a Batch<br>Billing System    |
| 2001-TE003       | 08/377610             | 5999916          | Teleflex Information<br>Systems, Inc. | United States   | 25-Jan-95           | 07-Dec-99     | No-Reset Option in a<br>Batching Billing System |
| 2001-TE003.C1    | 10/622106             |                  | Teleflex Information<br>Systems, Inc. | United States   | 17-Jul-03.          |               | No-Reset Option in a<br>Batching Billing System |

# Supporting Documentation Showing Evidence of Chain of Title for Patent Applications

The following documents represent evidence of the chain of title of all AT&T Wireless application to Cingular Wireless II, LLC.

- New Cingular Wireless Services, Inc. Secretary Certificate signed by Caroline Wilder, Assistant Secretary. This document certifies the following:
  - a) Agreement and Plan of Merger was entered into by AT&T Wireless Services, Inc. (ATTW), Cingular Wireless Corporation, Cingular Wireless, LLC and Links I Corporation whereby ATTW would be merged in to Links I. Whereby ATTW would be the survivor of the merger.
  - b) A true and correct copy of the Certificate of merger filed with the Delaware Secretary of State is attached and remains in effect.
  - As a result of the merger, ATTW becomes a wholly owned subsidiary of Cingular Wireless, LLC.
  - d) The name of ATTW was changed to New Cingular Wireless Services, Inc. on 10/24/2004.
  - e) A true and correct copy of the name change of ATTW is attached and remains in effect.
- 2) A true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State.
- 3) A true and correct copy of the name change of ATTW.
- 4) A true and correct copy of the <u>Certificate of Conversion</u> showing change of status of CWII, Inc to CWII, LLC.

CERTA NAME OF THE COLLEGE

#### NEW CINGULAR WIRELESS SERVICES, INC.

#### SECRETARY'S CERTIFICATE

I, Carolyn J. Wilder, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of New Cingular Wireless Services, Inc., a Delaware corporation, and as such I am authorized to execute this certificate. In such capacity, I further certify that:

- 1. An Agreement and Plan of Merger (the "Agreement") dated as of February 17, 2004 was entered into by and among AT&T Wireless Services, Inc., Cingular Wireless Corporation, Cingular Wireless LLC and Links I Corporation, a wholly-owned subsidiary of Cingular whereby AT&T Wireless Services, Inc. would be merged into Links I Corporation upon the terms and conditions of the Agreement, and AT&T Wireless Services, Inc. would be the survivor of the merger.
- 2. The merger of AT&T Wireless Services, Inc. into Links I Corporation was consummated on October 26, 2004.
- 3. The attached Exhibit "A" is a true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State and that said Certificate of Merger remains in full force and effect on the date hereof.
- 4. As a result of the consummation of the merger, AT&T Wireless Services, Inc. became a wholly-owned subsidiary of Cingular Wireless LLC.
- 5. The name of AT&T Wireless Services, Inc. was changed to New Cingular Wireless Services, Inc. on October 26, 2004.
- The attached Exhibit "B" is a true and correct copy of the Certificate of Amendment to The Certificate of Incorporation of AT&T Wireless Services, Inc. changing the name of the corporation to New Cingular Wireless Services, Inc. as filed with the Delaware Secretary of State and that said Certificate of Amendment to The Certificate of Incorporation remains in full force and effect on the date hereof.

IN WITNESS WHEREOF, I have subscribed my name as Assistant Secretary of the Company this 11<sup>th</sup> day of May, 2005.

Carolyn J. Wilder, Assistant Secretary

# Delaware

PAGE 1

## The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"LINKS I CORPORATION", A DELAWARE CORPORATION,

WITH AND INTO "AT&T WIRELESS SERVICES, INC." UNDER THE NAME OF "AT&T WIRELESS SERVICES, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 10:11 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Varnet Smith Hindson

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3434252

DATE: 10-26-04

2131363 8100M

SEVENTH: This certificate of merger shall be effective upon its filing with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, this Certificate of Merger has been executed by the undersigned, a duly authorized officer of the Surviving Corporation, on behalf of the Surviving Corporation as of the & 4th day of October, 2004.

AT&T WIRELESS SERVICES, INC.

Rv

Name: John D. 2. 191

Tale Chieffy grative Officer

TIS TARES LAK (COTO)

SEVENTH. Any action required or permitted to be taken by the holders of Common Stock of the corporation, including but not limited to the election of directors, may be taken by written consent or consents but only if such consent or consents are signed by all holders of Common Stock.

liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except to the extent that such exemption from liability or limitation thereof is not permitted under the Delaware General Corporation Law as currently in effect or as the same may hereafter be amended. No amendment, modification or repeal of this Article EIGHTH shall adversely affect any right or protection of a director that exists at the time of such amendment, modification or repeal.

CTSY XXX 16 5577 CLLI

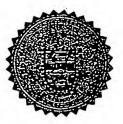
Delaware

PAGE 1

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AT&T WIRELESS SERVICES, INC.", CHANGING ITS NAME FROM "AT&T WIRELESS SERVICES, INC." TO "NEW CINGULAR WIRELESS SERVICES, INC.", FILED IN THIS OFFICE ON THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 11:01 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harrier Smith Windsor, Secretary of State

AUTHENTICATION: 3434831

DATE: 10-26-04

2131363 8100

TELS PACE OF ARK (COTO)

State of Delaware
Secretary of State
Division of Corporations
Delivered 11:23 AN 10/26/2004

## CERTIFICATE OF AMENDMENT FILED 11:01 AM 10/26/2004 TO THE SRV 040770545 - 2131363 FILE

## CERTIFICATE OF INCORPORATION OF

AT&T WIRELESS SERVICES, INC.

AT&T Wireless Services, Inc., a corporation organized and existing under and by virtue of the Delaware General Corporation Law (the "Corporation"), does hereby certify:

FIRST:

That on October 2, 2004, the Board of Directors of the Corporation adopted resolutions setting forth a proposed amendment to the Certificate of Incorporation of the Corporation, declaring said amendment to be advisable and submitting the proposed amendment to the sole stockholder of the Corporation for its consideration and approval. The proposed amendment is as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Certificate of Incorporation of the Corporation be amended by deleting the first paragraph in its entirety and replacing it with a new first paragraph to read as follows:

"FIRST. The name of the corporation is New Cingular Wireless Services, Inc."

SECOND:

That thereafter on October 2, 2004, said amendment was duly adopted by written consent of the sole stockholder of the Corporation in accordance with the provisions of Sections 228 and 242 of the Delaware General Corporation Law.

[Signature on following page]

THE DARF BLANK (USPT)

IN WITNESS WHEREOF, AT&T Wireless Services, Inc. has caused this Certificate of Amendment to be signed by a duly authorized officer this 20 day of October, 2004.

AT&T WIRELESS SERVICES, INC.

Name: Cardom J. Wilder

Title Assistant Scretary

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PAGE 1

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "CINGULAR WIRELESS II, INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "CINGULAR WIRELESS II, INC." TO "CINGULAR WIRELESS II, LLC", FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Varriet Smith Windsor, Secretary of State

3858251 8100V

040774599

AUTHENTICATION: 3437873

DATE: 10-27-04

CITED MANAGE BLANK (CEPT)

Ø007/012

State of Delaware Secretary of State Division of Corporations Delivered 10:47 AM 10/27/2004 FILED 10:27 AM 10/27/2004 SRV 040774599 - 3858251 FILE

#### CERTIFICATE OF CONVERSION OF CINGULAR WIRELESS II, INC. TO BECOME A LIMITED LIABILITY COMPANY

Pursuant to the provisions of Section 266 of the Delaware General Corporation Law and Section 18-214 of the Delaware Limited Liability Company Act, Cingular Wireless II, Inc., a Delaware corporation (the "Corporation"), submits the following Certificate of Conversion:

- 1. The name of the Corporation is Cingular Wireless II, Inc.
- The date on which the Corporation's original Certificate of Incorporation was filed with the Secretary of State is September 22, 2004.
- The name of the limited liability company into which the Corporation is being converted
  is Cingular Wireless II, LLC.
- 4. The conversion has been approved by written consent of the sole stockholder of the Corporation pursuant to Section 228 of the Delaware General Corporation Law in accordance with the provisions of Section 266 of the Delaware General Corporation Law.
- 5. The conversion shall be effective at 8:45 p.m. EDT on October 27, 2004.

[Signature on following page]

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IN WITNESS WHEREOF, Cingular Wireless II, Inc. has caused this Certificate of Conversion to be executed by a duly authorized officer this 27<sup>th</sup> day of October, 2004.

CINGULAR WIRELESS II, INC.

ly. \_\_\_\_\_\_\_ Name: (

-2-

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## Delaware

PAGE 2

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "CINGULAR WIRELESS II, LLC" FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF
THE AFORESAID CERTIFICATE OF FORMATION IS THE TWENTY-SEVENTH DAY
OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



3858251 8100V

040774599

Darriet Smith Hindson

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3437873

DATE: 10-27-04

THIS PAGE BLAINN (USA),

State of Delaware Secretary of State Division of Corporations Delivered 10:47 AM 10/27/2004 FILED 10:27 AM 10/27/2004 SRV 040774599 - 3858251 FILE

#### CERTIFICATE OF FORMATION OF CINGULAR WIRELESS II, LLC

- 1. The name of the limited liability company is Cingular Wireless II, LLC.
- 2. The address of its registered office in the state of Delaware is Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, County of New Castle. The name of its registered agent at such address is The Corporation Trust Company.
- 3. This Certificate of Formation shall be effective at 8:45 p.m. EDT on October 27, 2004.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Formation of Cingular Wireless II, LLC this 27<sup>th</sup>day of October, 2004.

Scott L. O'Melia
An Authorized Person

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| Form <b>FUP-1675</b> (Rev. 09/04)<br>MDNo. 0631-0087 (exp. 6/30/2005)            | U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office    |
|--|--|
| RECORDATION FORM   |  |
| APR 2 6 2006 PATENTS   |  |
| To the Director of the U.S. Patent and Trademark Office: Please                  | e record the attached documents or the new address(es) below.            |
| 1. National Conveying party(ies)/Execution Date(s):                              | 2. Name and address of receiving party(ies)                              |
| AT&T Wireless Services, Inc.   | Name: Cingular Wireless II, Inc.   |
| ·  | Internal Address: Suite 1700   |
|  |  |
| Execution Date(s) 5/26/2005  | Street Address: 5565 Glenninge Conn.                                     |
| Additional name(s) of conveying party(ies) attached? Yes No                      |  |
| 3. Nature of conveyance:   |  |
| Assignment Merger  | City: Atlanta  |
| Security Agreement Change of Name  | State: Cosmin  |
| Government Interest Assignment   | State: Georgia   |
| Executive Order 9424, Confirmatory License                                       | Country: USA Zip:  |
| <u> </u>   | Additional name(s) & address(es) attached? ☐ Yes ✓ No                    |
| Other  | document is being filed together with a new application.                 |
| 4. Application or patent number(s):  A. Patent Application No.(s)                | B. Patent No.(s)   |
| See Attached Sheets  |  |
|  |  |
|  |  |
| Additional numbers at  |  |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved:  33                |
| Name: Cingular Wireless, LLC   | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 1320.00                          |
| Internal Address: Attn: Linda Giles; #1725A                                      | Authorized to be charged by credit card                                  |
|  | Authorized to be charged to deposit account                              |
| Street Address: 5565 Glenninge Connector   | ☐ Enclosed   |
| Street Address.  | None required (government interest not affecting title                   |
|  | 8. Payment Information   |
| City: Atlanta  | a. Credit Card Last 4 Numbers  |
| State: Georgia Zip: 30066  | Expiration Date  |
| Phone Number: <u>(404) 236-6720</u>  | b. Deposit Account Number 50-2450  |
| Fax Number:  | Authorized User Name Coulter C. Henry                                    |
| Email Address: linda.giles@cingular.com  | -  |
| 9. Signature: Could Hay  | 5/26/2005  |
| Signature  | Date   |
| Coulter C. Henry; Reg. No.: 51,121   | Total number of pages including cover sheet, attachments, and documents: |
| Name of Person Signing   |  |

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## Patent Applications Subject to Assignment Cingular Wireless II, Inc. May 26, 2005

| 10/965,466 | 10/937,300  |
|------------|-------------|
| 11/000,353 | 11/017,787  |
| 11/105,049 | 11/036,159  |
| 11/054,695 |             |
| 10/933,677 |             |
| 11/097,459 | •           |
| 10/929,732 | ·           |
| 29/213,592 | ·           |
| 10/990,106 |             |
| 10/990,111 |             |
| 10/990,105 |             |
| 10/950,034 |             |
| 10/989,710 |             |
| 10/940,576 |             |
| 10/939,103 |             |
| 10/959,553 |             |
| 10/990,635 |             |
| 11/087,390 |             |
| 10/943,500 |             |
| 11/058,103 |             |
| 11/051,493 |             |
| 11/022,048 | • • .       |
| 11/018,780 |             |
| 10/963,838 |             |
| 11/065,971 | •           |
| 10/984,618 |             |
| 11/092,511 |             |
| 11/092,199 | 0 15-NAU 4  |
|            | -C112C-001A |
| 10/939,366 |             |

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## SECOND AMENDMENT TO PATENT ASSIGNMENT AGREEMENT

This Second Amendment To - PATENT ASSIGNMENT AGREEMENT is made this 26<sup>th</sup> day of May, 2005 and is added to and amends the PATENT ASSIGNMENT AGREEMENT by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") f/k/a AT&T Wireless Services, Inc. as ASSIGNOR and Cingular Wireless II, Inc., a Delaware corporation as ASSIGNEE, which the Patent Assignment Agreement is dated the 27<sup>th</sup> day of October, 2004.

Schedule A is hereby amended in accordance with the attached additions.

All other provisions in the Patent Assignment Agreement and Schedule A shall remain unchanged and in full force and effect.

[signatures on following pages]

--- TOPE OF ANK (USPTO)

#### Executed this 26th day of May, 2005.

Assignor: New Cingular Wireless Services, Inc. f/k/a AT&T Wireless Services, Inc.

By: Name:

Title:

Sean Foley

Vice President, Treasurer and Corporate Development

APPROVED

ATTORNEY

STATE OF

**COUNTY OF** 

On this 26<sup>th</sup> day of May, 2005, before me, a Notary Public in and for the State and County foresaid, personally appeared Sear State Move known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

inda S. Siles

Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008 LOS PASSED AND (SPI)

Acknowledged this 26th day of May, 2005.

Assignee: CINGULAR WIRELESS II, INC.

By: Name:

Title:

Sean Foley

Vice President, Treasurer and Corporate Development

**APPROVED** 

STATE OF **COUNTY OF** 

2612 159

On this 13 day of May, 2005, before me, a Notary Public in and for the State and County foresaid, personally appeared \_\_\_\_\_ Sean Jolen known by me

to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

Linda S. Giles

Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008 CTES) KARTE STARK (ESPE)

## Schedule A (2<sup>nd</sup> Revision)

| Docket<br>Number | Application<br>Number   | Patent<br>Number | Owner           | Country    | Application<br>Date | Grant Date | Title  |
|------------------|---|------------------|-----------------|------------|---------------------|------------|--|
| 917.US           | 10/965.466  |                  | AT&T Wireless   | USA        | 10/13/2004          |            | Adjusting Link Layer Control Frame to Facilitate Data Throughput                                       |
|                  | 11/000 353  |                  | AT&T Wireless   | USA        | 11/29/2004          |            | A Method for Programming a Mobile<br>Station Using a Permanent Mobile<br>Station Identifier            |
| 606 US CP1(1)    | 11/105 049  |                  | AT&T Wireless   | USA        | 4/11/2005           |            | Secure Online Purchasing   |
| 883118           | 11/054 695  |                  | AT&T Wireless   | USA<br>VSD | 2/10/2005           |            | System and Method for a Telecommunications Network   |
| 21000            | 10/933 677  |                  | AT&T Wireless   | USA        | 9/03/2004           |            | System and Method for Data Organization and Display in an Instant-messaging Interface                  |
| 731.00           | 44/007 450  |                  | AT&T Wireless   | 481        | 4/01/2005           |            | Adaptive Dual-polarization<br>Communication of Orthogonal<br>Frequency Division Multiplexed<br>Signals |
| 7000             | 60 to 10 to |                  | ord Mississippi | 9 9 1      | AOCOCIA             |            | System and method for Data<br>Scrambling to Reduce the Crest<br>Factor in an OFDM Waveform             |
| 130.037          | 29/213 592  |                  | AT&T Wireless   | USA        | 20-Sep-2004         |            | MOBILE COMMUNICATIONS<br>DEVICE  |
| ) I 908          | 10/000 106  |                  | AT&T Wireless   | PSP        | 15-Nov-2004         |            | SUBSCRIBER INDENTITY MODULE WITH VIDEO PERMISSIONS   |
| 896.US.D1        | 10/990,111  |                  | AT&T Wireless   | USA        | 15-Nov-2004         |            | PERSONAL BASE STATION WITH WIRELESS VIDEO CAPABILITY   |

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## Schedule A (2<sup>nd</sup> Revision)

| Docket       | Application | Patent |               | Country | Application | Grant Date  | Title   |
|--------------|-------------|--------|---------------|---------|-------------|-------------|---|
| Number       | Number      | Number | Owner         | мате    | Date        | Oranic Date |   |
| *            |             |        | •             | -       |             | •           |   |
|              |             |        |               |         |             |             | METHOD, SYSTEMS AND   |
|              |             |        |               |         |             |             | WIRELESS IDENTIFICATION TO  |
| 863.US       | 10/990.105  |        | AT&T Wireless | USA     | 15-Nov-2004 |             | STANDARD TELEPHONE  |
| 0.000        | 700 0000    |        | AT&T Wireless | ASI     | 24-Sep-2004 |             | A STANDARDS-BASED TERMINAL LOCATION SERVER SOLUTION FOR LOCATION APPLICATIONS |
| 880.03       | 10/950,054  |        |               |         |             |             | OVER THE AIR  |
| . 511 803    | 10/989 710  |        | AT&T Wireless | USA     | 15-Nov-2004 |             | PROGRAMMING/ACTIVATION FOR SIM ENABLED DATA DEVICE                            |
| 20.55        | 21.150501   |        |               |         |             |             |   |
|              |             |        | A TOT Mission | ۷۵۱     | 14-Sen-2004 |             | DEDICATED WIRELESS DEVICE<br>BUSINESS MODEL                                   |
| 930.03       | 10/340,576  |        | 200           |         | 7000        |             | ALWAYS ON MOBILE IM /<br>MESSAGING CENTRIC WIRELESS                           |
| 931.US       | 10/939,103  |        | AT&T Wireless | OSA     | 10-3eb-2004 |             | IMPROVING VOICE QUALITY   |
| 924 US       | 10/959.553  | •      | AT&T Wireless | . NSA   | 06-Oct-2004 |             | BASED ON CUSTOMER FEEDBACK  |
|              |             |        | ·             |         |             |             | Method and System for Providing<br>Location Information for emergency         |
| 939.US       | 10/990,635  |        | AT&T Wireless | USA     | 17-Nov-2004 |             | Services  |
| 450 10 00000 | 44,007,200  | ·      | AT&T Wireless | USA     | 3/22/2005   |             | Cyclic Trellis Coded Modulation   |
| 120.020(3)   | 066, 19071  |        | 5             |         |             |             | Methods and Systems for   |
| 01           | 40/042 500  | ,      | AT&T Wireless | IISA    | 9/17/2004   |             | Communicating and Controlling<br>Facsimile Information                        |
| 490.03.01    | 000,049,001 |        | 2000          | ¥ 01 -  | 2/44/2005   |             | System and Method for Providing an Adapter Module                             |
| 577.US.C1    | 11/058,103  |        | Al&I Wireless | Yen     | 2017/2020   |             | System and Method for Providing an  |
| 577.US1      | 11/051,493  | . ,    | AT&T Wireless | USA     | 2/4/2005    |             | Adapter module  |
| 702 US.C1(2) | 11/022.048  |        | AT&T Wireless | USA     | 12/22/2004  |             | Communications  |
|              |             |        |               |         |             |             | Low complexity Maximum Likelinood  Detection of Concatenate space             |
| 731.US.D1C2  | 11/018.780  | *      | AT&T Wireless | USA     | 12/21/2004  |             | Codes for Wireless Applications   |
|              |             |        |               |         |             |             |   |

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# Schedule A (2<sup>nd</sup> Revision)

| Docket        | Application | Patent |                  | Country  | Application |                   | -  |
|---------------|-------------|--------|------------------|----------|-------------|-------------------|--|
| Number        | Number      | Number | Owner            | Name     | Date        | <b>Grant Date</b> | Title  |
| 735.US.C1(1)  | 10/963.838  |        | AT&T Wireless    | USA      | 10/12/2004  |                   | Maximum Ratio Transmission   |
|               |             |        |                  |          |             |                   | System and Method for Providing                                    |
|               |             |        |                  |          |             |                   | Locaton-based services in a vineress<br>Network. Such as Providing |
|               |             |        |                  | •        |             |                   | Notification Regarding Meetings,                                   |
| 890.US        | 11/065,971  |        | AT&T Wireless    | USA      | 2/24/2005   |                   | Destination Arrivals, and the Like                                 |
|               |             |        |                  |          |             |                   | System for Providing Location-based                                |
|               |             | 8      |                  | •        |             |                   | Services in a Wireless Network, Such                               |
| 895.US.C1     | 10/984,618  |        | AT&T Wireless    | NSA      | 11/08/2004  |                   | as Locating Sets of Desired Locations                              |
|               |             |        |                  |          |             |                   | Using Emoticons, Such as for                                       |
| 927.US.C1     | 11/092,511  | ·<br>· | AT&T Wireless    | NSA      | 3/28/2005   |                   | Wireless Devices   |
|               |             |        |                  |          |             |                   | Customer Service Messaging, Such                                   |
| 928.US.C1     | 11/092,199  | _      | AT&T Wireless    | USA      | 3/28/2005   | •                 | as on Mobile Devices   |
|               |             |        |                  |          |             |                   | Method and System for controlling the                              |
|               | •           |        |                  |          | •           |                   | Operation of Movable Wireless                                      |
| 908.US        | 10/938,569  |        | AT&T Wireless    | NSA      | 9/13/2004   |                   | Networks   |
|               |             |        |                  |          | •           |                   | Method for Location-Based Asset                                    |
| 733.US.C1     | 10/939,366  | •      | AT&T Wireless    | USA      | 9/14/2004   |                   | Management   |
|               | -           |        |                  |          |             |                   | Method and System for Providing                                    |
|               |             |        |                  |          |             |                   | Data Communication with a Mobile                                   |
| 333.US.C1(1)  | 10/937,300  |        | AT&T Wireless    | USA      | 9/10/2004   |                   | Station  |
| 422.US.C1     | 11/017,787  |        | AT&T Wireless    | USA      | 12/22/2004  |                   | Integrated Number- Phase 1   |
| 304 116 C4/4) | 11000 150   |        | A T O T 14/1-020 | <b>V</b> | 474873005   |                   | Method and Apparatus for Message                                   |
| 201.00.00     | 11/050/129  |        | A I & I WITEIESS | USA      | 1/10/2005   |                   | Hallshipsion Vernicauon  |

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